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September 1982 PUZZLING AMERICA SINCE 1977 $1.50

GAMES

FIFTH ANNIVERSARY ISSUE

INTRODUCING MONTHLY PUBLICATION

Pun Up of the Year

0 71486 02811 09

We've dressed Playmate Candy Loving head to toe in puns—from her bottle cap to her garden hose. Can you identify the 27 other items in this tongue-in-chic wardrobe?

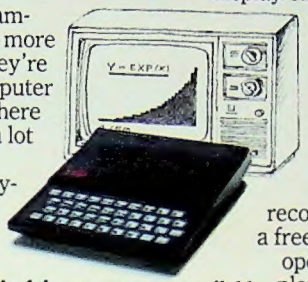
Answers, last page

For $99.95 you can have a full powered personal computer.

Most people know by now that the ZX81 from Sinclair Research is the lowest priced personal computer in the world.

But serious programmers are looking for more than a low price. They're looking for true computer power. And that's where the ZX81 surprises a lot of people.

Just look at the keyboard and you'll get some idea of the ZX81 's power. It has more than 60 BASIC commands, 20 graphic symbols, and complete mathematical functions. And there's even more power that you can't see.



Sinclair programs are available

A breakthrough in personal computers. The ZX81 offers features found only on computers costing two or three times as much.

Just look at what you get:

- Continuous display, including moving graphics
- Multi-dimensional string and numerical arrays
- Mathematical and scientific functions accurate to 8 decimal places
- Unique one-touch entry of key words like PRINT, RUN and LIST
- Automatic syntax error detection and easy editing
- Randomize function useful for both games and serious applications
- Built-in interface for ZX Printer
- 1K of memory expandable to 16K
- A comprehensive programming guide and operating manual

16K Memory Module

The ZX81 is also very convenient to use. It hooks up to any television set to produce a clear 32-column by 24-line display. And you can use a regular cassette recorder to store and recall programs by name.

What you get. When you order your ZX81, you get everything you need to start programming.

It comes with connectors for your TV and cassette recorder, an AC adaptor, and a free programming guide and operating manual that completely documents the capabilities of the ZX81.

Options and add-ons. Like any full-powered computer, the ZX81 can be expanded and upgraded.

Its 1K memory can be expanded to over 16K just by plugging the Sinclair Memory Module onto the back of the unit. The cost is only $49.95.

Sinclair has also published pre-recorded programs on cassettes for your ZX81. We're constantly coming out with new programs, so we'll send you our latest software catalog when you order your computer.

How did we do it? The question most often asked about the ZX81 is, "How can so much computer power cost so little money?" The answer is that Sinclair Research simply took a different approach. Our only goal was to make programming power as affordable as possible. So we developed a radical new design that cuts costs dramatically without cutting computer power. For example, our unique Master Chip replaces as many as 18 chips used in other personal computers.

The success of the ZX81 speaks for itself. It is now the fastest-selling personal computer in the world. And we stand behind our product. If anything goes wrong in the first 90 days, we'll repair or replace your unit free of charge. Even after that, you can take advantage of our national service-by-mail facilities for a minimum fee.

Order now and try it out for 10 days. Simply send the coupon along with a check or money order. For faster delivery, call our toll-free number and use your MasterCard or VISA.

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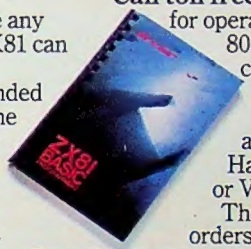

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These numbers are for orders only. If you just want information, please write: Sinclair Research Ltd., 2 Sinclair Plaza, Nashua, NH 03061.

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SEPTEMBER 1982

GAMES

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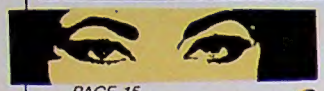

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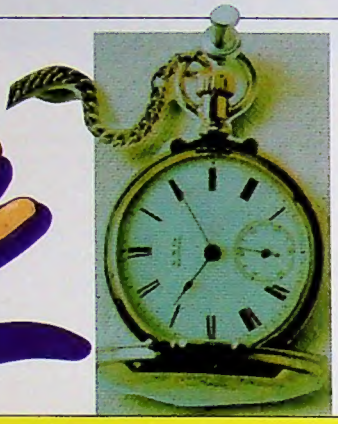

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HOW WILL YOU EVER GET ANYTHING DONE NOW THAT THERE'S *GAMES* EVERY MONTH?

We have a lot to celebrate as we put together this 31st edition of GAMES. Five years of publishing is a happy landmark, all the more so since it coincides with our first monthly issue. Not entirely by accident, the issue includes pieces by and about some people who helped create the lively audience for puzzles that exists today.

Margaret Farrar is undoubtedly the First Lady of the crossword puzzle. It was she who set today's high standards for wit and accuracy in crosswords, first at the *New York World* and later as crossword editor of *The New York Times*. In addition to a story about Mrs. Farrar (page 26), you will find a novel example of her work (page 53)—a two-solver "Matchwit" crossword, constructed in 1954.

If crossword puzzles are one passion that binds many readers to GAMES, math and logic are certainly another. Martin Gardner, during his 25 years as a columnist for *Scientific American*, probably created more enthusiasm for recreational math than any math teacher ever dreamed possible. Gardner, profiled in our November/December 1981 issue, has moved on from his column but continues to beguile us through his books. His most recent work, excerpted on page 18, is a collection of paradoxes in which there are no right and wrong answers; in fact there are no answers at all.

One area of puzzles in which GAMES might fairly be said to have pioneered is the purely visual conundrum. We never realized quite how unexplored the genre was until photographer Walter Wick walked into our offices one day with his "Amazing Mirror Maze" (September/October 1981). Walter has dazzled us several times since then with his photographic mischief. But when he proposed a time sequence puzzle using 11 photographs of a watch, we responded with blank stares. What challenge could there be in that? The astonishing result is on page 30.

Magic (literally and metaphorically) is another touchstone in the world of GAMES. This issue includes one trick created by reader Michael Ecker (page 20), and another trick debunked by The Amazing Randi, who has doffed his magician's hat to expose "The Strange Story of the Professor and the Psychic" (page 58).

As you puzzle your way through these and other challenges this month, you may notice that some of our pages have a new look. Our resident designers have dressed up the inside as well as the cover, giving the magazine a new dimension and making it easier to read. No doubt some of you will pull out old issues and try to find all the differences. Note: This is definitely *not* a hidden contest. In fact there is no hidden contest in this issue. We saved that for next month. —R.S.

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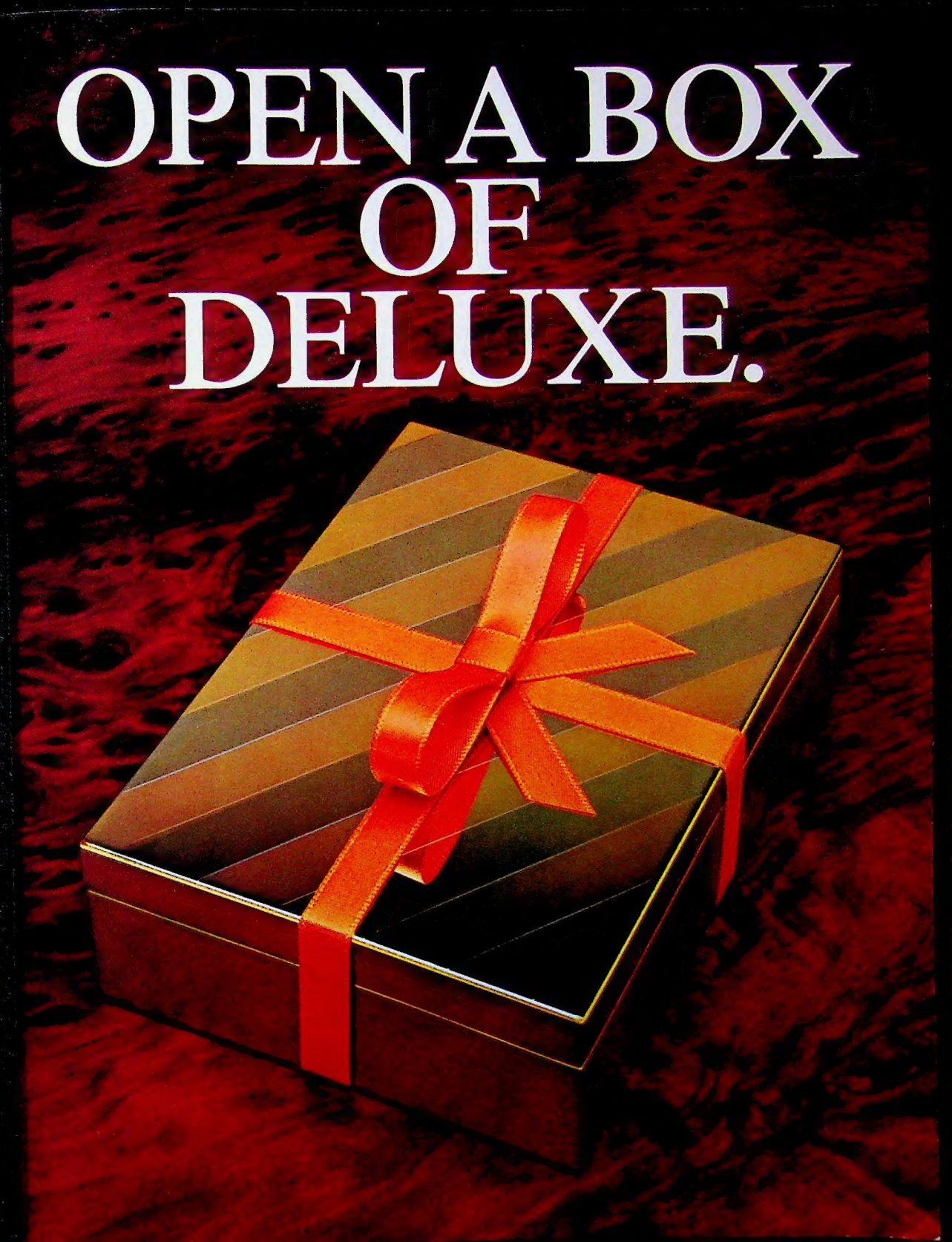

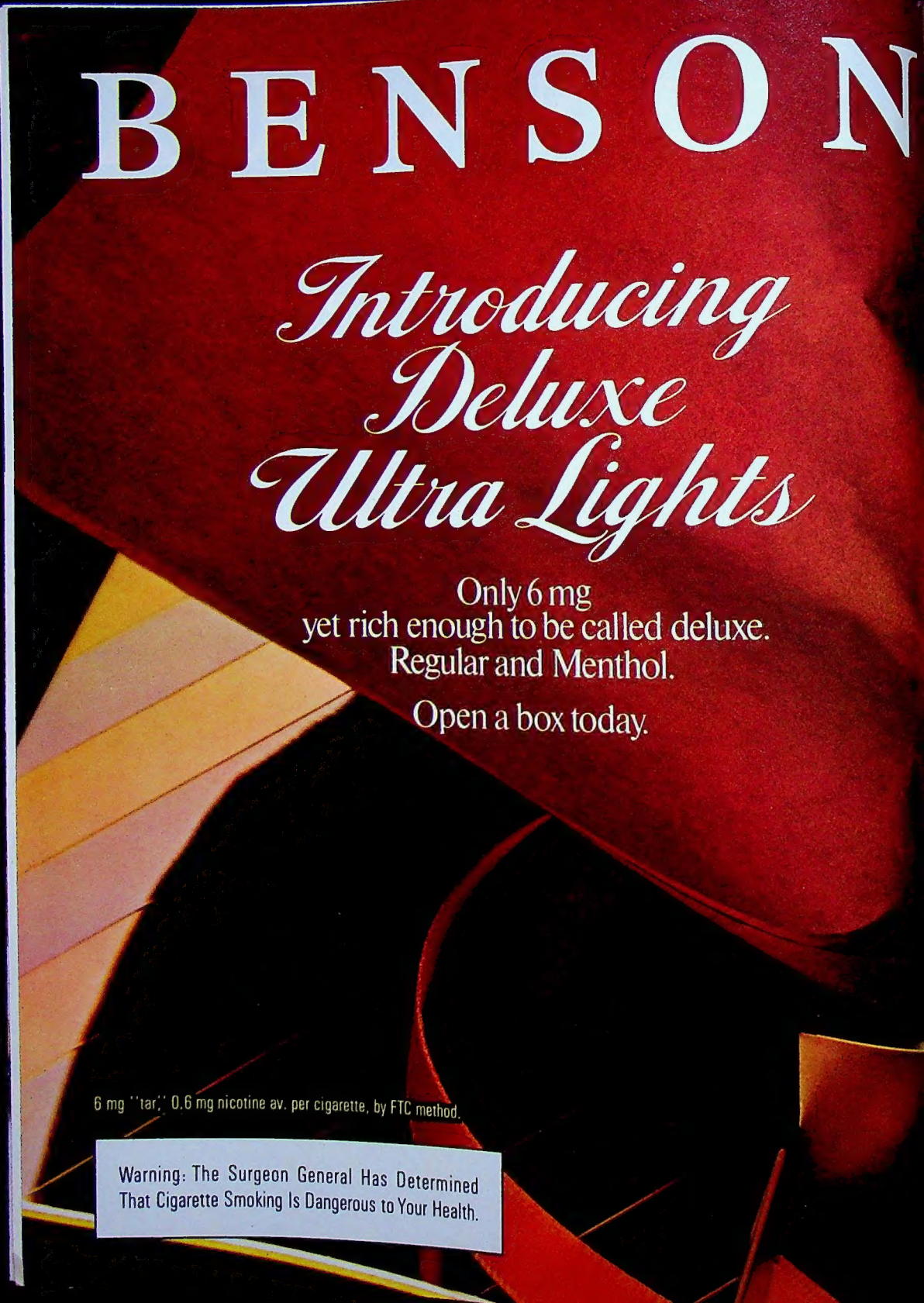
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LETTERS

Still Hungry?

After absolutely devouring your "View Over the Fat Farm Wall" (May/June) I was hungrily searching through your answers. To my horrification, while you included the tongue and sole of the shoe, you failed to include the ____ . I hope you can stomach your error.

Hilary Weingerten
Palo Alto, CA

To discover what she (and many other readers) are talking about, see "Eureka," page 92.—Ed.

N.E.A.T.er

I enjoyed taking your "New Equation Analysis Test" (May/June, page 28). However, by the time I had finished it I had almost lost my 5 = S., my head was spinning 360 = D. in a C., and I needed 2 = A. for a H. No more, please, or I'll need the 9 = L. of a C. to survive my wife's wrath. Here's wishing you 7 = Y of B.L. for my marital discord.

Ray Love
Tucson, AZ

After completing your "Equation Analysis Test," my wife and I began to test each other with new equations. She came up with "54 = S. on a R.C." This stumped me for a couple of hours, but when I finally figured it out I told her any mathematician knows it's really "84 = S. on a R.C."

Paul Williams
Cincinnati, OH

Answer Drawer, page 85

How About a Pyx of Emodin?

After completing the Tiebreaker Puzzles for the First U.S. Open Crossword Championship, my eyes are bleary, my costards are turning to custard, my seraphim look like teraphim, and my kids say, "Your brain has turned to pap, Pop!" My wife thinks I spent so much time solving Tiebreakers #3 and #4 that I probably missed an easy answer on the first two. If she's correct, please send me something appropriate with which to do away with myself, such as an inee-bedaubed kris. Seems the only thing left for a hilding like me to do is become a gangrel.

Arthur Verdesca
Morristown, NJ

Some 800 contestants sent Tiebreaker solutions, and nine solvers amazed us by completing all of them correctly. Tricky answers in Tiebreaker #2 (COSTARD instead of CUSTARD, TERAPHIM instead of SERAPHIM, etc.) eliminated more contestants than the more difficult Tiebreaker #4. Copies of all are still available for $2 and a stamped addressed envelope. The finalists will be competing in New York about the time this issue is published. See Contest Results for the Nonparticipant winner.—Ed.

59464 and 78057 Zip

After puzzling over "Fan Mail" (July/August Wild Cards, page 66), I decided to take up the challenge. Leafing through a Zip Code directory, I came up with these celebrities to add to your list

1. 74839 56339: Dustin (OK) Hoffman (MN)
2. 01570 59464: Dudley (MA) Moore (MT)
3. 31766 54741: Morgan (GA) Fairchild (WI)
4. 50522 31076: Burt (IA) Reynolds (GA)
5. 36469 95360: Paul (AL) Newman (CA)
6. 86341 78057: Melba (ID) Moore (TX)
7. 93287 21810: Woody (CA) Allen (MD)

Glenn Kantor
Southampton, NY

Envelope of the Month

J. Martinko
Utica, NY

Results of our "Air Race" Contest (May/June, page 14) will be in the October issue.—Ed.

The Games 100

Your magazine does a superb job of compiling its "Games 100." Each year I purchase three or four copies and post "The Games 100" in my store window. It has been a boon both in explaining the games to my customers and rating the games' varying levels of play.

Susan Hunter
Greenbelt, MD

The 1982 "Games 100" will appear in our November issue.—Ed.

Minute by Minute

I participated in the 1980 Annual American Crossword Puzzle Tournament at Stamford, Connecticut. Miriam Raphael, who finished second that year, amazed me with her lightning speed and vast knowledge. I finished "Going Places" (May/June, page 39) in 16 minutes 50 seconds. *Surely* you have Mrs. Raphael's solving time of 19 minutes 6 seconds wrong?

Sharon Miller
Baltimore, MD

Nope. Even among crossword puzzle champions, times vary with the number of words and clues a given solver happens to know.—Ed.

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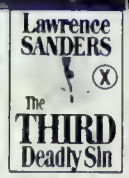

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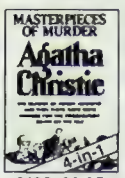

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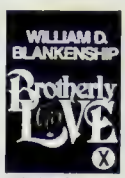

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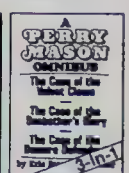

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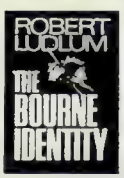

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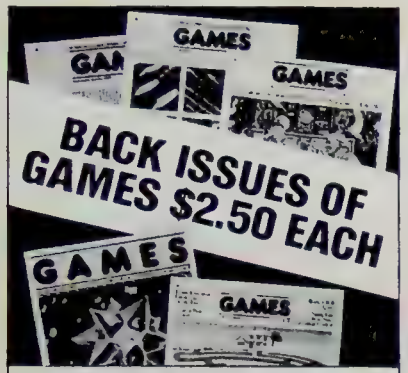

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LAUNDRY BASKET

If a reader finds a mistake that affects the play of a game, or a significant error of fact, and we agree the slip needs to be laundered, we'll print the first or best letter and send the writer a Games *T-shirt.*

Mistakes: July/August

★ In the Gamebit "Prime Time" (page 12) there is a significant error of fact. The article claims there are 26 primes between 0 and 100, when in fact there are 25: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, and 97.

Robert Bieringer
Mastic Beach, NY

★ The wonders of modern science! Your Wild Cards contain a typewriter that corrects itself. In "Xhe Mxxxxng Kexs" (page 64), the S, which is missing in "missing," is a key part of the solution yet appears in "keys." Best of luck with your mechanical problems.

Chuck and Craig Mateer
Lancaster, PA

★ Re your "Horseplay" Wild Card (page 64):

START

should-	-fi-	be	T-	-ru-	-ly	hav-	Al-
ls	mis-	-t	low-	That	-shirt	-sig-	hy-
-nite-	-n't	de-	-fi-	Games	-phen	-though	-ing
-placed	where	A	-sert	the	in-	a	might
-in	-ly	dash	play	-cant	Seem	found	-y
one	Horse-	with-	un	as-	ought	-ror	get
had	and	-lant	To	puz-	your	ver-	We
Your	put	-zle	we	-gal-	out	to	er-

Linda, John, and David Bretz
Rochester, NY

We regret our error. Answer Drawer, page 85.—Ed.

EVENTS

Before attending any of these events, write or call to verify dates, places, eligibility, entry fees, etc. Send a stamped, self-addressed envelope with your request.

Blackjack Fall Blackjack Classic, at the Riviera Hotel in Las Vegas, September 6-9. If you're 21 or over, and your hand is 21 or under, you can play it as it lays for a cut of the $150,000 purse. Contact: World Championship of Blackjack, Inc., 20201 Sherman Way, Canoga Park, CA 91306.

Chess 48th Annual Church's Southwest Open, in San Antonio, Texas, September 4-6. Open to U.S. Chess Federation members (you can join on site), this Labor Day tourney has a guaranteed purse of $9,200. Contact: Mike Moore, San Antonio Chess Club, 4510 Walzem, San Antonio, TX, or call (512) 655-1309.

Croquet Sixth Annual U.S. Croquet Association National Championships, in New York City's Central Park, September 15-19. There's sure to be a lot of hot shots between the wickets, as the top 80 U.S. players knock it out for the title. Contact: Jack Osborne, 635 Madison Ave., New York, NY 10022, or call (212) 688-5495.

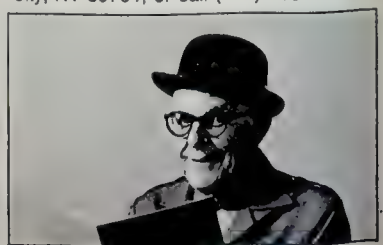
Map Dash The 1982 Great Maltese Circumglobal Trophy Dash begins September 30 (entry deadline 10/27). Outfitted with an atlas and cryptic rules, entrants circumnavigate the world with all due haste. Go the distance and earn a jigsaw puzzle imprinted with your route; if you finish among the top 10 percent you'll win a laser-engraved plaque. Contact: Trophy Dash, Box 53, La Canada, CA 91011.

Othello Early-round tournaments for the 1982 National Othello Championship will be held in New York, Washington, San Francisco, and Chicago throughout September. The winners will travel to Washington for the finals on October 9-10. Contact: USOA, Box 342, Falls Church, VA 22046, or call Emily Whelan, (212) 683-7810.

Scrabble Hyatt Cancún Open Tournament, in Cancún, Mexico, December 11-16. Register by September 15, and you too can play your tiles beneath swaying palms, simultaneously earning points for the U.S. Scrabble Championship. Contact: Edith Berman, Old Sudbury Rd., Lincoln, MA 01773, or call (617) 259-0108.

Wargaming Gateway 1982, in Anaheim, California, September 4-6. Family tournaments are featured at this bustling expo—and you can combine it with a visit to nearby Disneyland. Contact: Gateway, Box 2577, Anaheim, CA 92804.

Whistling Fifth Annual International World Whistle-Off, in Carson City, Nevada, September 25-26. Whistlers from Canada, Belgium, England, Mexico, and the U.S. pucker up and blow to the tunes of their choice for trophies and the title. Contact: Leona Wood, Carson City Chamber of Commerce, 1191 S. Carson St., Carson City, NV 89701, or call (702) 882-1565.



Dr. Horatio Q. Birdbath, whistling tourney founder

Solving Rubik's Cube™ could get you on the tube.

Enter the 2nd Annual Rubik's Cube™-A-Thon with a chance to appear in the U.S. Finals on "That's Incredible!" An Alan Landsburg Production.

Cubemania sweeps the nation again! Eager Rubik's Cubists all over the country are getting ready to test their skill in head to head competition.

Local Tournaments

All entrants start at the local level for a chance at the National Championship. Tournament locations and dates are listed by region.

Prizes: 1st place— $300 and 1st place medal
2nd place—$100 and 2nd place medal
3rd place—$ 50 and 3rd place medal

U.S. Tournament

The winner with the best time in each of the six regions will get a trip for two to Hollywood, expenses paid, to compete for the National Championship on "That's Incredible!"

Prizes: 1st place— $2000 and trophy
2nd place—$ 750 and trophy
3rd place—$ 500 and trophy
4th place—$ 100 and plaque
5th place—$ 100 and plaque
6th place—$ 100 and plaque

So, if you've got what it takes, show it to the world!
Enter the Rubik's Cube-A-Thon today in a mall near you.
You could be on TV tomorrow!

IDEAL

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EAST

New York
Riverside Square — Oct. 16
Hackensack, NJ
Roosevelt Field Mall — Sept. 2
Garden City, NY

Philadelphia
The Gallery at Market East — Sept. 11
Philadelphia, PA

Boston
South Shore Plaza — Oct. 9
Braintree, MA

Washington, D.C.
Landover Mall — Sept. 3
Landover, MD

SOUTHEAST

Atlanta
Peachtree Center — Oct 23
Atlanta, GA

Miami
Miami International Mall — Sept. 25
Miami, FL

Charlotte
Eastland Mall — Oct. 9
Charlotte, NC

Memphis
The Mall of Memphis — Oct. 16
Memphis, TN

EAST CENTRAL

Detroit
Lakeside Center — Oct. 16
Sterling Heights, MI

Pittsburgh
Century III Mall — Sept 18
West Mifflin, PA

Buffalo
Eastern Hill Mall — Sept. 18
Williamsville, N.Y

Cleveland
Randall Park Mall — Sept. 4
North Randall, OH

Indianapolis
Washington Square Mall — Sept 11
Indianapolis, IN

MIDWEST

Chicago
North Riverside Park Mall — Sept. 25
North Riverside, IL

St. Louis
Northwest Plaza S.C. — Oct. 9
St. Ann, MO

Minneapolis
Burnsville Center — Oct. 16
Burnsville, MN

SOUTHWEST

Houston
Greenspoint Mall — Oct. 9
Houston, TX

Dallas
Red Bird Mall — Oct. 2
Dallas, TX

Denver
Aurora Mall — Sept. 4
Aurora, CO

WEST

Los Angeles
Santa Anita Fashion Park — Sept. 18
Arcadia, CA

Portland
Clackamas Town Center — Oct. 9
Portland, OR

San Diego
Parkway Plaza — Oct. 23
El Cajon, CA

San Francisco
San Mateo Fashion Island — Sept. 25
San Mateo, CA

Seattle
SeaTac Mall — Oct 23
Federal Way, WA

Check malls for last minute details.

A SONY SO INGENIOUS IT ACTUALLY COMPENSATES FOR THE SHORTCOMINGS OF YOUR MEMORY.

INTRODUCING DIRECT ACCESS TUNING: THE SOPHISTICATED MADE SIMPLE.

In just about every major metropolitan area there are literally scores of radio stations to choose from. Needless to say, remembering the station number for each requires a memory far beyond those of mortal men. So Sony created a receiver that does the remembering for you. The masterpiece of audio engineering you see here—the STR-VX33.

Obviously, everybody has a few favorite stations firmly entrenched in their minds. With Sony's exclusive Direct Access tuning you just punch them in directly. The same way you'd dial a number on a touch-tone phone.

But let's say you want to tune in a station and you can't remember the entire frequency. For example, you know it's one-zero-two-point-something. The VX33's intuitive tuning feature automatically finds the part you don't know. It's so easy you can do it with your eyes closed.

And once you find it you never have to remember it again. Because you can program it directly into the memory. Up to eight of your favorite stations can be stored in the memory at a time. Select keys one through eight and you retrieve the station you want instantly. And if you're not sure which one you want to listen to, the Sony-developed Memory Scan gives you a four-second sampling of each.

And because of Sony's quartz frequency synthesis, there's no drifting, no signal fade. You get crisp, clear, unadulterated high-fidelity sound.

All that plus 40 watts per channel and Sony's unique Legato Linear amplifier circuitry for an inaudible 0.008% total harmonic distortion.*

The Sony VX33. It's technology in characteristic Sony fashion.

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And that's something you should have no trouble remembering.

*FEATURES AND SPECIFICATIONS. 40 watts per channel continuous power output (minimum RMS, both channels driven into 8 Ohms, from 20 Hz to 20 kHz, with no more than 0.008% THD). Legato Linear power amplifier reduces switching distortion. Two tape monitors with tape dubbing. Sony Corp. of America, Sony Drive, Park Ridge, New Jersey 07656 © 1982 Sony Corp. of America. Sony is a registered trademark of the Sony Corp.

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GAMEBITS

Edited by Curtis Slepian

ILLUSTRATION BY DON LEAKE

A Backgammon Gamble Pays Off

Is backgammon a game of skill or of chance? Recently, a U.S. court answered that question in a decision that may affect backgammon players and promoters throughout the country.

The controversy started early in 1981 when police in Portland, Oregon, arrested the well-known backgammon tournament director and writer Ted Barr just before the finals of his Portland Marriott Open. Because the tournament offered cash prizes and required an entry fee, Barr was charged with promoting gambling. According to the statutes of Oregon, New York, and other states, gambling is defined as risking something of value upon the outcome of a contest of chance.

Instead of copping a plea, Barr decided to fight the charge. He hoped a court would rule again—as the Alabama Supreme Court had done in 1876—that backgammon, like chess or bridge, is a game of skill. For his defense, Barr enlisted the help of, among others, former World Backgammon Champion Paul Magriel, the game's most articulate authority.

The main point at issue was the effect of dice on the game. "Even after rolling, you may have as many as 30 or more options," Magriel told a packed courthouse early this year during his two hours of expert testimony. "The decision where to move your men after the dice have been cast—that is the essence of the game. Chance is not a material factor."

Judge Stephen S. Walker agreed. He found Barr innocent of promoting gambling, concluding that "backgammon is not a game of chance but a game of skill."

"It would have been a disaster if it had gone the other way," says Henry Wattson of American Backgammon Championships, promoters of the biggest backgammon tournaments in the country. "But now the Oregon decision will make it easier to get sponsors and to go into places that are sort of hazy about whether they should have a tournament or not."

Wattson notes that when American Backgammon Championships considered running a tournament at Resorts International in Atlantic City, the New Jersey Attorney General's office ruled that backgammon is in effect a lottery and therefore that holding a backgammon tournament anywhere in the state would be illegal. "After the Oregon decision, we intend to fight that ruling in court," Wattson says. —R.D.

Twist and Shout

It's official: The fastest cubist in the West is from the East. Last June, 16-year-old Minh Thai, a Vietnamese "boat person," won the first International Rubik's Cube Championship by solving the puzzle in a mere 22.95 seconds. That's right—seconds.

In 1979 Thai and his family survived a Malaysian refugee camp and the vicissitudes of U.S. immigration and settled down in Los Angeles, where he faced yet another challenge—Rubik's Cube. A week after Thai saw his first Cube, he put the puzzle together in two minutes. That same month he won the U.S. championship on TV's *That's Incredible* in a time of 26.96 seconds, earning a shot at the world title in Budapest.

Thai's victory was witnessed by Ernö Rubik himself. The master crowned the champ and unveiled his new 4 × 4 cube, Rubik's Revenge. With more than 4 octillion times the combinations the original cube offers, the new cube may take Thai two weeks to figure out. —Christian Vioujard

PHOTOGRAPH BY CHRISTIAN VIOUJARD/AMANA

On your mark: Thai gets ready for a quick spin.

Art Decko

Now you too can be an art dealer. Simply buy "The Deck of Cards" and start dealing. Each card in this otherwise standard 52-card deck (plus two jokers) was designed by a different contemporary British artist. We've dealt out two poker hands using these intriguing designs. Can you figure out which one wins the pot?

"The Deck of Cards" is available in two sizes (standard deck, $20; postcards, $25; add $2 for shipping) from Sointu Designs, 20 East 69th St., New York, NY 10021. —L.F.

Answer Drawer, page 88

Double Crossing Crosswords

As if we weren't disillusioned enough by Ann Landers's admitted recycling of 20-year-old letters, days later a similar scandal shook our confidence in another great institution—*The New York Times*.

The embarrassed newspaper confessed to having run a crossword puzzle last April that was, in fact, a slightly revamped version of a *Times* puzzle from the late 1950s. A devious Californian, unnamed by the *Times*, had flopped the old puzzle so that the "across" words became "downs" and vice-versa, and then submitted the work as his own. Before the puzzle was published on April 16, the *Times* did give the contributor one stern warning: In future submissions, please make fewer typos in the clues.

The theft probably would have gone unnoticed but for a lucky coincidence and a persistent solver. Steve Zlotnick, a New York State employee and a regular *Times* solver, had barely begun tackling the puzzle when the central entry, THE EMPEROR JONES (Eugene O'Neill's 1920 play), struck a familiar chord. The previous day Zlotnick had encountered the same answer in an anthology of past *New York Times* puzzles. The more he studied the "new" puzzle, he said, the more familiar it looked. Finally, Zlotnick called the *Times* and pointed out the pirating. When the paper didn't respond after a week, he called their competition. Editors at the *New York Post* were more than happy to print the story.

The aftermath? The *Times* sent the California contributor a letter warning that he was subject to legal action and thanked Zlotnick for catching the slip. And they offered to refund the 30 cents he had spent for the April 16 *Times*. —M.S.

Pulling the Plug on Video Games

If you've had it up to your joystick with videomania, *The Official I-Hate-Video Games Handbook* by Emily Prager (Pocket Books, $2.95) offers some comic relief. From the very first video game—Pac-Tut—to the very last—Limited Nuclear War—Prager offers the tongue-in-cheek truth about the insidious effects of this debilitating craze.

From the book, here's a quiz to determine whether your loved one is a depraved video addict:

1. The last time you saw your loved one was . . .
   a) five days ago
   b) two weeks ago
   c) don't remember
2. When you last saw him/her, he/she was . . .
   a) slack-jawed and drooling
   b) running to the bank for quarters
   c) wearing earmuffs
3. Upon awakening, your loved one . .
   a) checks under the sofa cushions for loose change
   b) sings "Punk-Man Fever" in the shower
   c) calls in sick
4. Are any of the following items missing from your home?
   a) TV set
   b) grandma's wedding silver
   c) your newborn baby

If you circled *any* answer, he/she is a certified video addict and you'll probably want to show him/her our review of *Ken Uston's Guide to Buying and Beating the Home Video Games*, on page 65. —C.S.

An Aye for an Eye

Jeepers, creepers, where'd they get those peepers? And more important, whose peepers are they? These 10 riveting pairs of eyes belong to the winners of the 1982 Most Distinctive Eyes Award, an honor given by the folks who should know—the American Optometric Association. See if you can match the eyes to the winners, listed below. As a hint, we're including that quality which, says the AOA, makes each person's eyes special: Mikhail Baryshnikov ("sensitive"), Carol Channing ("astonishing"), Bette Davis ("penetrating"), Goldie Hawn ("innocent"), Liza Minnelli ("sparkling"), Suzanne Pleshette ("flashing"), Jane Seymour ("mysterious"), Omar Sharif ("smoldering"), Brooke Shields ("dreamy"), and Elizabeth Taylor ("captivating"). —C.S.

Answer Drawer, page 88

"You never bought me Chivas Regal."

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by Basil Ede

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by Europe's foremost wild bird portraitist.

Each plate bearing an original work of art created by Basil Ede exclusively for this collection.

Each decorated with a border of pure 24 karat gold.

Available by subscription only.
Advance subscription deadline:
September 30, 1982

THE ARTIST. Basil Ede, of Sussex, England, has been called "the outstanding wild bird portraitist of his generation, and perhaps of his century." He is widely regarded as Europe's most distinguished bird artist. Indeed, the authority of his style and the distinction of his work have profoundly influenced the way birds are portrayed by artists throughout the world.

After notable exhibitions in London and other major European cities, Basil Ede was honored by a one-man show at the Smithsonian Institution's National Collection of Fine Arts in Washington, D.C. This was followed, during recent years, by important exhibitions at New York's famous Kennedy Galleries.

His paintings have been commissioned by the National Audubon Society and the World Wildlife Fund, among others. And he is represented in many public and private collections, including the Smithsonian Institution and the collection of HRH Prince Philip, Duke of Edinburgh.

Now, at the height of his career, Basil Ede has created an important new series of superlative works of art in fine porcelain — *Water Birds of the World*. Twelve

CANADA GOOSE

collector's plates portraying the wild beauty and majesty of water birds in precise, authentic detail — with Ede's inimitable flair for color and composition.

Each of these twelve plates is, in itself, a masterful work of art. Together, they form an incomparable collection that will be a proud acquisition for every subscriber . . . a focus for conversation and admiration when displayed in the home.

WOOD DUCK

THE WATER BIRDS PLATES. The plates will be large in size — 9 inches in diameter — to provide full scope for Ede's finely detailed portrayals of water birds in their natural habitat.

And they will be crafted under the supervision of Franklin Porcelain in Japan, by craftsmen schooled in the delicate, demanding art of fine porcelain.

Franklin Porcelain has devoted more than two years to meticulous preparation for the issuance of these plates, and every detail will be of the highest quality. For example, each plate will be hand-decorated with a border of pure 24 karat gold. And each plate will incorporate as many as sixteen separate ceramic colors.

Ede's very beautiful and marvelously accurate works of art — created especially for this collection and available only on these fine porcelain plates — make this an acquisition that will be enjoyed and prized by all who love the beauty of birds, of art, and of porcelain.

THE SIGNATURE EDITION. The first edition of this collection will be a special Signature Edition. Each collector's plate in this limited edition will bear Basil Ede's signature on the back in 24 karat gold. This signature will appear *only* on the plates in this first edition.

The plates in this unique edition will be crafted exclusively for individual subscribers. The edition is available only until the end of 1982. And the limit of one collection per subscriber will be enforced without exception. Thus, the total number of sets of the Signature Edition will be forever limited to the exact number of original subscriptions entered during the offering period.

ADVANCE SUBSCRIPTION DEADLINE: September 30, 1982. The Signature Edition will be issued to subscribers at the convenient rate of one plate every other month. The original issue price of just $55 per plate is payable in two convenient monthly installments of $27.50 per month. Each plate will be accompanied by specially written reference material and a special wall mount. And a Certificate of Authenticity will accompany each collection.

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Please enter my subscription for the *Water Birds of the World* porcelain plate collection, bearing new and original works of art by Basil Ede and his signature in 24 karat gold.

I need send no payment now. The twelve plates are to be sent to me at the rate of one plate every other month, and I will be billed for each plate in two equal monthly installments of $27.50* each, with the first payment due in advance of shipment.

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Mr.
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PLEASE PRINT CLEARLY

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Limit: One collection per subscriber.

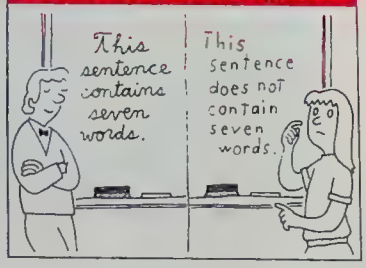
Puzzling Paradoxes

All Cretans are liars," said Epimenides the Cretan—and gave early philosophers a headache. If he's telling the truth, they figured, then he must be a liar, since he's a Cretan. But if he's a liar, he can't be telling the truth. But . . .

Paradoxes like this still give logicians headaches, but the rest of us can simply sit back and enjoy being tantalized by them. Martin Gardner, in his new book, "aha! Gotcha: Paradoxes to puzzle and delight," has collected more than 80 classic and modern brainbenders. See if you can unravel the excerpts below—five immovable objects waiting for an irresistible force.

Discussions in Answer Drawer, page 85

A Sentence and Its Opposite



How many words are in the sentence on the left? Five. Clearly this sentence is false. So its *opposite* (right) ought to be true. Right? Wrong!

Crocodile and Baby

Greek philosophers liked to tell about a crocodile that snatched a baby from its mother.

Crocodile: Will I eat your baby? Answer correctly and I'll give the baby back to you unharmed.

Mother: Oh! Oh! You're going to eat my baby.

Crocodile: Hmmm. What should I do? If I give you back your baby, you will have spoken falsely. I should have eaten it . . . . So I won't give it back.

Mother: But you must. If you eat my baby, I spoke correctly and you have to give it back.

The poor crocodile was so freaked that it let the baby go. The mother grabbed her child and ran.

The crocodile had a problem: He had to both eat the baby and give it back at the same time. The mother was very clever. What if she had said, "You're going to give the baby back?"

Wishing Won't Make It So

Threba Johnson, of New Canaan, Connecticut, told me that one day she pulled a wishbone with her small son. After he won, he asked his mother what she had wished for. She said her wish had been that *he* would win. Did she win? Would she have won if she had pulled the larger part of the bone?

The Curious Will

A wealthy lawyer owned 11 antique cars. When he died, he left a curious will. It asked that his 11 cars be divided among his three sons. Half the cars were to go to the eldest son, a fourth to the middle son, and a sixth to the youngest. Everybody was puzzled. How can 11 cars be divided into two equal parts? or four? or six?

While the sons were arguing about what to do, Ms. Zero, the famous numerologist, drove up in her sports car.

Ms. Zero: Hello, boys. You look as if you have a problem. Can I help?

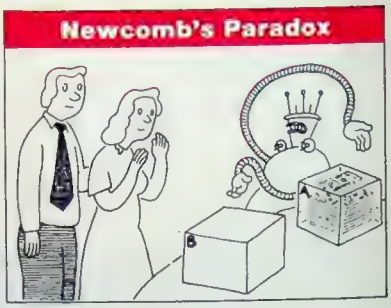
After the sons explained the situation, Ms. Zero parked her sports car next to the 11 antique cars and hopped out.

Ms. Zero: Tell me, boys, how many cars are here?

The boys counted 12. Then Ms. Zero carried out the terms of the will. She gave half the cars, or six, to the oldest son. The middle son got a fourth of 12, or three. The youngest son got a sixth of 12, or two.

Ms. Zero: 6 plus 3 plus 2 is just 11. So, one car is left over: mine.

Newcomb's Paradox



Omega, a superbeing from outer space, could predict with great accuracy how any person would choose between two alternatives. He tested many people by using two large boxes. Box A was transparent and always held $1,000. Box B was opaque. Either it was empty or it held $1 million. Omega told each subject: "You have two choices. One is to take both boxes and keep their contents. But if I expected you to do this, I have left B empty. You get only $1,000. Your other choice is to take only box B. If I expected you to do this, I have put a million dollars in B. You get it all."

The man decides to take only box B. He reasons: I've watched Om make hundreds of tests. Every time he predicted right. Each person who took both boxes got only a thousand. So I'll take only box B and become a millionaire.

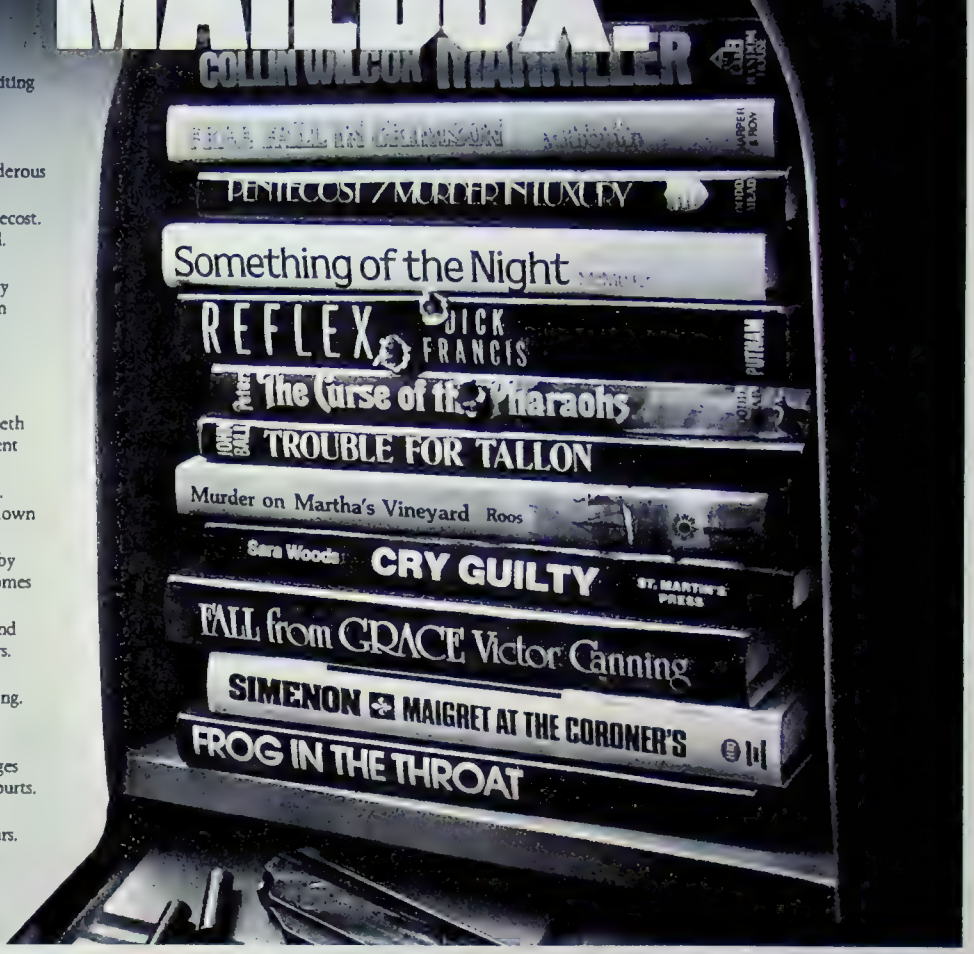
The woman decides to take both boxes. She reasons: Om has already made his prediction and left. Box B is not going to change. If empty, it stays empty. If full, it stays full. So I'll take both boxes and get everything that's there.

Who made the best decision?

ILLUSTRATIONS BY TOM BLOCH

Martin Gardner, who for many years wrote the Mathematical Games column in "Scientific American," was profiled in the November/December GAMES.

MURDER IN YOUR MAILBOX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FREE FALL IN CRIMSON
PENTECOST / MURDER IN LUXURY
Something of the Night
REFLEX DICK FRANCIS
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by Michael W Ecker

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To fill in each triangle in the second row: First add the two numbers connected to it from above; find the largest multiple of 5 that is *less* than the sum, and subtract the smaller number from the larger one; finally, enter the result in the triangle. For example, if you have a 31 next to the 6 in the diagram, add the two numbers (37), subtract 35 (the nearest multiple of 5 that is less than 37), and enter the result (2) in the triangle connected to the 31 and the 6. If your initial sum is 5 or less, enter the result directly, without doing the other calculations.

After filling in all the triangles in the second row, repeat the above procedure to complete the third, fourth, and fifth rows, leaving only the final triangle at the bottom.

Stop! Before you enter that final number, close your eyes and concentrate. Link your mind with mine and clear your head of all numbers. Let the final answer come to you across space and time. Here it is . . . that number, the one and only number that will complete this magic triangle, is . . . in the *Answer Drawer, page 89*.

Michael W. Ecker is assistant professor of mathematics at the Worthington Scranton Campus of Penn State University. He is also a freelance writer on sweepstakes and games of chance.

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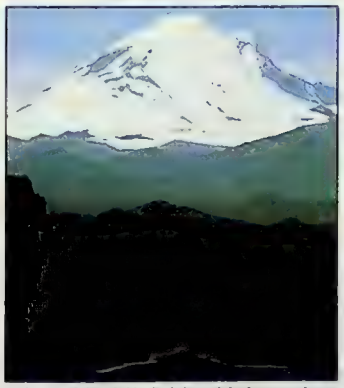

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If all records are made to be broken, can a perfect score ever be achieved in a contest? Maybe you can help answer that question. The challenge here is to fill in the empty wheel with any 16 letters of the alphabet, forming words of four or more consecutive letters reading clockwise *or* counterclockwise. The example above forms the clockwise words MILD, STAB, STABS, TABS, STAR, STARS, and TARS, and the counterclockwise words MELT, MELTS, RATS, BATS, and LIME.

Scoring Each separate word of four letters or more in your wheel scores one point for each letter in the word. The example would score 4 points for MILD, plus 4 points for STAB, plus 5 points for STABS, and so on, for a total of 51 points (30 clockwise and 21 counterclockwise). As you can see in the example, you may count both a word and its plural, but you may *not* count the same word twice, even if it appears twice in your wheel.

Acceptable Words To be acceptable, a word must be recognized by *Webster's Third New International Dictionary (Unabridged),* where the word must either be listed in boldface or be an inflected form of a boldface entry. Comparative and superlative forms of adjectives are acceptable only if specified after the boldface entry; but for variant spellings and compound words, plurals and verb forms are acceptable if merely implied by the inflectional patterns of related words. Words may contain apostrophes or accent marks. A word is unacceptable if it: (1) is composed of two or more component parts separated by a space; (2) contains a hyphen or period; (3) is designated only as capitalized or usually capitalized; (4) is not given a part of speech; (5) is listed only as an abbreviation; or (6) appears only in the Addenda.

ENTER ANY 16 LETTERS IN THE WHEEL TO SPELL WORDS IN BOTH DIRECTIONS

Winning The entry with the highest score wins. In the event of a tie, the entry with the fewest scoring words wins. Further ties, if any, will be broken by random drawing.

How to Enter On a sheet of paper, write your name and address, your score, your 16 letters in order, and a list of your scoring words. The example given previously would be submitted as follows:

Letters: M I L D S T A B S T A R S T L E
Clockwise words: MILD, STAB, STABS, TABS, STAR, STARS, TARS
Counterclockwise words: MELT, MELTS, RATS, BATS, LIME
Total score: 51

IMPORTANT: Be sure to include both your name and address and your score on the back of your envelope. You may enter as often as you wish, but each entry must be mailed separately. Mail your entry to: **Record Breaker, Games Magazine, 515 Madison Ave., New York, NY 10022. Entries must be received by October 4, 1982.**

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PUZZLEDOM'S REIGNING QUEEN MARGARET FARRAR

By Robert D. Spurrier

"Puzzles have never ceased to fascinate me," says Margaret Farrar, who for more than 60 years has reigned as America's leading lady of crosswords. With a list of six copy deadlines taped to her study portal, she works with diligence and verve, continuing a remarkable career that began, she says, by accident. A happy accident it was, for more than any other individual, Mrs. Farrar has helped nurture the development of crosswords from a 1920s fad to the lively institution of today. Among the more than 50 million Americans who work puzzles, her name is considered such a cachet of quality that the byline "Edited by Margaret Farrar" has become as much a part of the puzzle page as "Across" and "Down." And while her last name is correctly pronounced FAA-rer (with a short *a*), some of her fans, bedeviled by the work of other puzzle editors, prefer to call her FAIR-er.

At 85, Margaret Farrar is an unassuming, forthright woman with flawless posture, alert blue eyes, and smooth pink cheeks. Always ready for work, she wears around her neck a pair of reading glasses, an eraser-tipped mechanical pencil, and a monocle-sized magnifier.

As she has done since 1945, Mrs. Farrar works in her seventh-floor apartment on Manhattan's East 96th Street. Everywhere there are books—three to four thousand by her estimate—40 shelves on one wall alone, the hallway overflowing with copies of all her puzzle books and those of her contemporaries, even a fireplace wedged full of miscellaneous volumes. "It looks disorganized," she says apologetically, "but I seem to know where everything is."

Throughout the living room and adjoining study she has arranged several card tables and desks, each with neat stacks of puzzle materials: solved and unsolved grids, typewritten lists of clues, and galley proofs for new books. Awaiting Mrs. Farrar at her main desk—the least cluttered one—are a three-inch-high pile of puzzle submissions, a quiver of sharpened pencils in a cup, and an armless wooden chair. To foster a little exercise, she has deliberately dispersed her three unabridged dictionaries, various reference books, typewriter, and files. "It gets the circulation going," she explains.

Although Margaret Farrar has constructed her share of puzzles over the years, her chief and enduring contribution to the genre has been as an editor, most notably of the celebrated Simon and Schuster crossword series since 1924, and of *The New York Times* crossword puzzle from 1942 to 1969. In that role she has encouraged and helped mold several generations of constructors, and in the process played a major part in setting the standards for American crosswords as we know them.

Early in her career she was one of the leaders in promoting symmetrical grids with no unkeyed letters (meaning that every white square is part of an Across and a Down word). Later she encouraged experimentation with phrases, full and partial names (GIBSHAW, RELEE), book and song titles, quotations, puns, numbers, and other tricks that make modern puzzles so distinctive. She called for "fresh and felicitous" definitions because, she explains, "once you've stopped defining a tree as a woody plant, then you can open things up." She discouraged the now-outlawed two-letter words, including the timeworn three-toed sloth, AI, and clamped down on overused three-

(Continued on page 28)

A PUZZLER'S CROSSWORD

When we asked Margaret Farrar to sit for this picture-in-a-puzzle, she replied, a bit skeptically, "You're going to build a room with a crossword on the walls?" In her 62 years as a crossword puzzle editor, no one had requested anything quite like this

Answer Drawer, page 87

ACROSS

1 Frankie, of the Four Seasons
6 Salty dogs
10 Worn out
14 Air safety org
17 E.T., e.g
18 Drive the getaway car, e.g
19 Mata ___
20 Tax folks: Abbr
21 Dime, to a dollar
22 Bellow
23 Four weeks, approximately
25 Enter an answer on the perimeter of a puzzle?
28 Actor Wallach
29 Erratum, sometimes
30 Petty officers
31 Skeletons in the closet
35 Whimpers
37 Former cabinet dept.
40 Creating a puzzle à la Mrs. Farrar?
44 Ecuador's capital
46 Disembarked
47 Dye compound
48 "Who can I ___, when nobody ..."
49 Downstairs, on a ship
51 Cloth dealer
52 Shook a finger
53 Finest fellow
55 Between Ds and Fs
56 Mine material
57 Wrote a book
60 "Come in!"
64 On the house
65 "___ O'Clock Jump"
66 You, to a Quaker
67 Nixon's veep
69 Unit of work
70 Somewhat scarlet
73 Allison, on *Peyton Place*
74 Concept
75 Moray
76 Englishmen
79 Walruses
80 Crossword doer
81 Mink wraps
82 Defeated
83 Jamie of *M*A*S*H*
84 Grandma's presser
89 Part of a serial
90 Indicate
91 Pepper or Preston: Abbr.
92 ___ for apples
94 Head: Fr.
98 Bell employee
100 Ancient Greek historian
101 Pig's home

DOWN

1 Tub
2 Cost an arm and ___
3 Queue
4 Crossword submitted to Mrs. Farrar?
5 Takes a deep breath
6 Tropical plant
7 Scrub a space flight
8 All set
9 Comic ___
10 Sneaker, e.g
11 Purse
12 Washington's neighbor
13 Puzzle formerly edited by Mrs. Farrar?
14 Kind of school
15 Bachelor of ___
16 Arthur, of tennis and crossword fame
24 Be a proprietor
26 "___ Little Bit of Luck"
27 Candidate
31 Strikebreaker
32 Gardner, of mysteries and crosswords
33 Helix shape
34 Sleep bringers
36 Unique things
38 Suffix for major
39 Actress Peggy
41 Harangue
42 Family
43 "With it"
45 High-priority
48 Points for a hoop
50 Court
54 Moneyed athlete
57 At a distance
58 Feel the ___
59 Be inclined
61 Subject of a crossword
62 Scary
63 Majestic
68 Word with golf or merry
71 D.C. bigwigs
72 Possesses
76 Southern lass
77 Dark, as hair
78 Sherbets
79 Chimney sweep's covering
80 Where 1-Across meets 1-Down?
81 Shawls in Juarez
82 Packed cotton
83 Following: Abbr.
85 Certain atoms
86 "Bunkum!"
87 Lyric poem
88 Wind dir.
93 Twisted
94 Faucet
95 Numerical suffix
96 In addition
97 Crossword bird
99 Scheider, of *Jaws*

I THINK I SOLVED EVERY PUZZLE THAT WAS IN THE

and four-letter words (EMU, ESNE, ANOA) She also did away with the hints that told readers the number of words in each answer. "We got a lot of mail complaining at first," she says, "but I told them that guessing the number of words was now part of the puzzle.

"It was all a gradual thing," Mrs. Farrar says of the changes. "As an editor, I was interested and willing to listen to bright ideas and to try them. The constructors really took it and made it innovative." Jack Luzzatto and Diana Sessions created grids with wide-open patterns. Advertising executive Harold T. Bers constructed witty thematic puzzles, including one titled "Catalogue" with such answers as CATBIRD SEAT, KITTY HAWK, and PUSSYFOOT. Mrs. Farrar's corps of constructors included her two successors at the *Times*—Will Weng, who helped popularize pun-filled crosswords, and Eugene T. Maleska, who contributed the first Stepquote, in which a quotation zigzags from the upper left to the lower right corner of the puzzle

Her relations with constructors have always been warm. In a profession where the workers are often notoriously underpaid (the creator of a 15 x 15-square puzzle that might have taken 16 hours to make might receive $10 to $35), Mrs. Farrar has given her collaborators the next best thing to a raise: handwritten notes of encouragement.

Though in her imagination Margaret Farrar probably has explored more rivers, mountains, nations, and Pacific islands than any other person, she lives only six blocks from where she was born. The daughter of a prosperous licorice manufacturer, Margaret Petherbridge majored in history at Smith College, graduating in 1919. "I thought I was going to become a teacher," she recalls, "but then I realized that if I did, I'd never get married." So she went to work for a bank instead, but found that the tasks were dull and the filing system irregular ("Even I knew that Coty Frères shouldn't be filed under F").

But in bustling, post-World War I New York there were almost as many newspapers as banks, and in 1921 Mrs. Farrar landed a job as secretary to John O'Hara Cosgrave, the Sunday editor of the *New York World* and the stepfather of her college roommate. "I lit up to the idea of the *World*," she says, "It had glamour."

It also had crosswords, invented for the paper in 1913 by Sunday Editor Arthur Wynne, but they were anything but glamorous. Plagued by misprints and mangled definitions, the puzzles had become a neglected embarrassment, and the new secretary was asked to put them in order. "I had to learn the hard way, for there was no one to teach me," she recalls.

She learned fast, guiding the puzzles to greater professionalism and accuracy, aided by two other Sunday *World* staffers—F. Gregory Hartswick, who oversaw the paper's "Fun" section, and Prosper Buranelli, an accomplished feature writer who concocted elaborate charades for the Sunday magazine in his spare time.

One January morning in 1924 two young Columbia University graduates visited the *World* offices to discuss an unusual idea: They planned to launch their careers in publishing with a book of crossword puzzles. "Discourage 'em," growled columnist Franklin P. Adams, remembered with affection by Mrs. Farrar as "the original curmudgeon." But the youthful visitors, Richard L. Simon and M. Lincoln Schuster, persisted, and signed up Farrar, Hartswick, and Buranelli (at advances of $25 each) to deliver 50 fresh crosswords.

Today, crossword puzzles are such an institution that it's hard to remember what a questionable novelty they were considered in January 1924. In fact, a crossword collection seemed such a risky venture that Simon and Schuster withheld their real names from the book and published it instead under the imprint of the Plaza Publishing Company, a name borrowed from their telephone exchange. (They also had trouble recruiting someone to write the introduction. Adams and the 28-year-old editor of the literary monthly *The Bookman*, John Farrar, were among those who said no. Farrar, of course, later said yes—to Margaret Petherbridge. They were married in May 1926.)

Selling for $1.35, the book came equipped with a sharpened pencil attached to the cover and a penny postcard (to send for the answers) tucked inside. On publication day, April 10, 1924, the newly enthusiastic Adams trumpeted the event in his column: "Hooray! Hooray! Hooray! Hooray! The Cross Word Puzzle Book is out today!"

The book was an instant sensation. It quickly reached the best-seller list, went into additional printings, and immediately spawned two additional volumes. By mid-October the three puzzle books ranked among the top five nonfiction best sellers, and by Christmas, sales had approached the 400,000 mark. "We used to get in a barouche," Mrs. Farrar says, pausing as if to savor the sound of the word, "and drive up and down Fifth Avenue. One of us would run into a bookstore and ask how many puzzle books had been sold that day, and the answer would be in the thousands. We were young and very excited."

Suddenly, it seemed, crosswords were everywhere—they had become the national mania. *Puzzles of 1925* premiered on Broadway, black-and-white crossword patterns were the fashion rage, and Yale edged Harvard in one of several puzzle tournaments. In its debut issue in February 1925, *The New Yorker* magazine observed that "judging by the number of solvers in the subway and 'L' trains, the crossword puzzle bids fair to become a fad with New Yorkers." That same issue also took note of a rising young literary star, John Farrar. Later described by his wife as "the youngest and friskiest editor of the time," he was also a talented poet, playwright, and critic. Aided by the royalties from his wife's puzzle books, he co-founded two major publishing houses: Farrar and Rinehart, in 1929, and Farrar, Straus and Co. (now Farrar, Straus and Giroux), in 1946, where he worked until his death in 1974

"It was a good double career," Margaret Farrar reminisces. "We spoke the same language." She left her job at the *World*, but continued to edit puzzles for the Simon and Schuster series, often working beside her husband when he read manuscripts at home. They raised a

SHE SAYS OF HER

son and two daughters, and now there are a dozen grandchildren and a great-grandchild. "They all have large vocabularies," she says, but none, alas, are puzzlers.

Though she kept her puzzle work separate from her duties as a mother, she did try out a forerunner of Scrabble with her family. "During the Depression, I was intent on inventing a game out of crossword puzzles," she recalls. "When the children were in bed with colds, we experimented with anagram blocks on a Sorry board. I *knew* there was a game somewhere, and offered the idea to Parker Brothers. But they said $3 was too much for the public to spend for it."

If her talents were ignored by Parker Brothers, they were recognized by *The New York Times*, which in 1942 had the good sense both to begin a Sunday puzzle page and to name Margaret Farrar its editor, starting what would be a 27-year reign. "Originally, the family tended to conceal the fact that Mother was a puzzle editor. But when I joined the *Times* I became respectable."

At first the *Times* puzzles seemed to be enforcing the paper's dictum to publish "all the news that's fit to print." Sunday Editor Lester Markel, after all, had declared that since the *Times* was a

TIMES IN 27 YEARS

newspaper, the puzzles should have news in them. Fittingly, the first puzzle, on February 15, 1942, was titled "Headlines and Footnotes," and led off with "Famous one-eyed general" as the clue for 1-Across (answer: WAVELL). Subsequent puzzles included the equally dry "Leaders and Battlegrounds" and "Clues from the Rationing Board." But editor Farrar, with an eye toward entertainment, subtly maneuvered the crosswords away from reminders of war. "I kept wondering who was watching," she says with a smile, "and gradually the puzzles became more fun."

On September 11, 1950, the *Times* began a daily puzzle "as a little brother to the Sunday one," in Mrs. Farrar's words Publisher Arthur Hays Sulzberger, very much a puzzle fan, decided to print the crossword on the book page because, Mrs. Farrar explains, "he thought it had some literary leanings." Margaret Farrar and her *Times* crosswords had indeed become respectable

With the added editorial responsibility, Mrs. Farrar changed her routine of weekly visits to the *Times* offices. "Once I took on the dailies, I went down every afternoon," she says. "I stayed long enough to avoid the rush hour and then came back to fix dinner," editing puzzles on her lap as she rode the subway en route. Gradually Mrs. Farrar became a "night owl," as she describes herself today. "The job was every day of the year, and as the old song goes, I began to 'steal a few hours from the night, my dear.' John was more of an early bird, but I was always brighter and more wide awake in the late afternoon and evening. After the phone stopped ringing was the best time to think up that magical definition."

During those late hours, Margaret Farrar began her work by doing precisely what millions had done earlier in the day as a diversion: She picked up a crossword and a pencil. "I must have solved every puzzle that was in the *Times* in 27 years," she says of her 7,000-puzzle tenure at the paper. Why did she bother? "Test solving told me so much about the puzzle," she explains. "By test solving, I learned if a puzzle had gripping power, if it was too easy in one spot or too hard in another, and where things needed to be fixed."

She arranged the daily puzzles by degree of difficulty, for, as she explains, "it seemed logical that they be easier on Monday and then get harder. And on Saturday I'd select one that would take longer to finish; what I called a two-cups-of-coffee puzzle."

Mrs. Farrar introduced Sunday *Times* readers to other puzzle genres, including puns and anagrams, double-crostics, cryptics, and diagramless crosswords. She also found time to construct her own crosswords for magazines as varied as *Good Housekeeping* (which received 10,000 protest letters when it dropped her monthly puzzle), *Esquire*, *Seventeen*, *Town & Country*, and *Sports Illustrated*. (For an unusual example of her work, see page 53.)

Mrs. Farrar edited the *Times* crossword until January 1969, when she yielded to the paper's mandatory retirement rule, but she has continued to work with puzzle constructors on a demanding schedule. She helps edit puzzles for the Los Angeles Times Syndicate, edits a monthly crossword for the business magazine *Across the Board*, co-edits the three-per-year Simon and Schuster books (Series 129 is due out this fall), and puts together an annual engagement calendar of crosswords. "It's high time I relaxed a bit," she observes, hinting—not very convincingly—that she might give up one of her assignments.

Why is there such a demand for crossword puzzles? "Doing crosswords is sane-making," Mrs. Farrar explains. "They invite an unusual concentration, and reward with a perfect solution. People also do them for entertainment, for learning spellings and facts, for getting educated once in a while."

Pointing to a newspaper clipping about the American hostages in Iran doing crosswords, she says, "As a worry antidote they really rate high." She adds that puzzles have always sold well in difficult times: "I've always said that you can't worry about your bills when you're worrying about 7-Down."

Crosswords also provide the appeal of a mystery, according to Mrs. Farrar. "There are a lot of little clues and you put them together."

More than 60 years after she began this "accidental career," Margaret Farrar is modest in assessing herself. "I've never felt like a star," she maintains. "I've felt like a responsible, no-nonsense editor."

The current blossoming of crossword puzzle tournaments has enabled both solvers and constructors ("my old friends") to honor Mrs. Farrar as "the Queen of Puzzles," in the words of Eugene T. Maleska. She responds with dignity, graciousness, and charm, always taking the time to shake a hand, autograph a puzzle, and chuckle over a long-ago clue. When a contestant observed that such tournaments were evidence of the growing popularity of crosswords, she nodded, paused for a few seconds, and said, "I think it keeps us young."

Robert D. Spurrier is a freelance writer with a not-so-secret addiction to crosswords

7000 PUZZLE TENURE AT THE PAPER

Letters to the Editor

Puzzle solvers, Margaret Farrar once wrote, are "savage correspondents," and over the years she has been equally ardent in replying to her legions of fans. Among the most memorable exchanges are these:

- Confronted with the clue "Manager of the Globe Theatre," an indignant solver complained that he had called the Globe Theater in New York and found that neither of the two managers' names fit the puzzle's 11-letter space. "We had to break it to him gently," Mrs. Farrar says, "that the answer was Shakespeare."
- In the 1950s, a woman called to ask Mrs. Farrar if she knew an alternative word for "housewife." Mrs. Farrar offered "oikologist," then asked the caller how she planned to use it. "On a passport," the woman replied.
- In one of her rare errors, she gave the clue "Captain Ahab's distinguishing characteristic" for the answer WOODEN LEG. "An eight-year-old boy sent me a letter pointing out that Ahab had an ivory leg," Mrs. Farrar says. "And I wonder to this day what he was doing reading *Moby Dick* at that tender age."
- Like children eager for a peek at their Christmas presents, some solvers asked Mrs. Farrar for tips. She once divulged a few words ahead of time to a young woman who wanted to impress her boyfriend, a puzzle buff. "I just hope I haven't saddled some bright boy with a dumb girl for life," she says.
- When the 114-day New York City newspaper strike ended in March 1963, she wondered whether to print the answers to the previous puzzle, which had appeared back in early December. "I thought, no, that people wouldn't save the puzzle for 100 days," she recalls. "But we did get a lot of mail from puzzle people who wanted to see the answer. This shows the attraction of crosswords—and the staying power."
- During World War II, Mrs. Farrar's list of admirers included sailors on a Navy supply ship in the Pacific, who, after working puzzles tacked onto a bulletin board, requested her photograph: They had elected her their official pinup.

TIME PIECE

A Sequence Puzzle
Created and Photographed
By Walter Wick ★★★

The pictures here tell a story about time, and about such paradoxes as how photographs can be trusted to deceive. The puzzle consists of 11 different photographs taken at five-minute intervals. The first photograph, taken at 10:10, is indicated. Can you put the others in order by determining the time each was taken?

All the photos are of the same correctly running watch. Many of the shots are deceptive, but none involve trick photography or unseen props.

Answer Drawer, page 85

TAKE FIVE!

COLLAGE BY JOHN CRAIG

★☆

On the occasion of our fifth anniversary, you're invited to take a quiz. (Sorry, we ran out of champagne.) Forty-one images in this collage suggest the number five. Can you identify them all? After five years you really ought to have our number. *Answer Drawer, page 89*

F.W. WOOLW
PSYCHIATRIC HELP
DIMENSION
FOUR ROSES
Beethoven

"EITHER THIS IS THEIR BEST SPACE GAME EVER, OR MY LIVING ROOM IS GOING 165 MPH."

Presenting Star Strike.™ The exciting new space game with brilliant colors, gripping tension, and special effects so realistic they appear three-dimensional. Compare it to other space games. We think you'll agree that color, excitement and special effects make Intellivision® Star Strike the clear winner.

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Intelligent Television

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Alphabet Coup

A Mystery Puzzle

by J.F. Peirce ★★

The night after winning $18,000 at a poker game at his home, wealthy industrialist Robert Randolph Hudson was found stabbed to death on the floor of his bedroom. The murder weapon, an ornate knife he had used as a letter opener, lay near his right hand, and scratched crookedly on the floor near it was a wobbly but complete alphabet.

Lieutenant Reason, the local constable, elicited the following facts about the night of the murder.

There had been three houseguests in residence—Robert Edward Edwards, Ralph Ignatius Vincent, and Brian Delacorte Jordan. Edwards was a certified public accountant, Vincent the manager of radio station KTLC in Seattle, and Jordan a senior pilot with TWA.

This motley crew had become acquainted at a meeting of the Mystery Writers of America, and since then had made a practice of getting together once a year to discuss their sleuthing works-in-progress and to stage an all-night poker game. The Gothic-style ambience of Robert Hudson's mansion always added a fillip to the discussions—but never quite the fillip of that fateful night.

The four men had had dinner and then talked mystery over their brandy in the library, with much going back and forth to the shelves to confirm a clue in this book, a victim in that. Then they dismissed the servants for the night and jointly made sure the house was locked, doors and windows bolted.

At about 11 P.M. they started the poker game. As always, they played for cash. The games went very one-sidedly, and when they quit, at about 3 A.M., Robert Hudson was the only winner. Hudson stuffed his $18,000 winnings into an empty briefcase and went up to his bedroom, a soundproof tower apartment. His guests consoled themselves with brandy and then also retired.

By lunchtime the next day, the men wondered why their host had not yet appeared. As a group they went up to his room and came upon the grisly scene. They called the police, who appeared in the person of Lieutenant Reason. He, in turn, called his medical examiner, then questioned the servants, took biographical information from the guests, and heard everyone's story of the night before. His inquiry led him to the following conclusions:

1. Since the medical examiner placed the time of death at between 3 and 5 A.M., and since, when the servants arrived back at the mansion at 6:30 it was still locked up tight, the murderer must be one of the guests. Thus the dying man's clue—the scratched letters—must point to one of the three.

2. The murderer must have returned to the scene of the crime and discovered that Hudson had managed to leave an initialed clue. The murderer had disguised the clue by hiding it in the "forest" of the alphabet.

3. None of the guests could afford to lose the amount he had lost, so each had a motive.

4. Each guest had left the house for various reasons that morning and could have disposed of the $18,000.

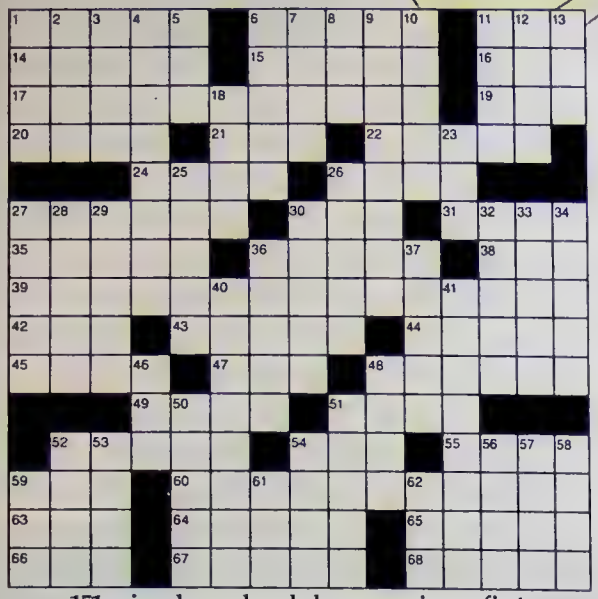
Lieutenant Reason carefully checked his notes. He then went up to the bedroom and looked at the scratched letters once more. When he came down he put handcuffs on the guilty man. Who was it?

Answer Drawer, page 88

J. F. Peirce is a professor of English at Texas A&M and a seasoned mystery writer.

The Creamery Co.

FOUR NEW LIQUEURS THAT SPELL DELICIOUS.



151 prizes have already been won in our first "Creamery" game. Enter our second contest and you, too, may be a winner.

TO ENTER THIS MONTH'S GAME: Complete the Crossword puzzle and mail your name, address, age and T-shirt size (please print) along with your completed puzzle or facsimile to: CREAMERY CONTEST, P.O. Box 3016, Westbury, N.Y. 11591. Entries must be received by September 30, 1982. Enter as many times as you wish but each entry must be mailed in a separate envelope. Prize winners will be determined in a random drawing among correct entries by independent judges whose decision is final. No prize substitutions. Winners will be notified by mail. "The Creamery" Contest is open to all residents of the U.S. who are of legal drinking age in the states of their residence. Void where prohibited or restricted by law. Employees and their families of Fleischmann Distilling Company, affiliates and agencies are not eligible. For a list of major winners, send a stamped, self-addressed envelope to: CREAMERY CONTEST WINNERS, P.O. Box 3082, Westbury, N.Y. 11591.

ACROSS

1 TV host Jack et al.
6 Make suitable
11 Hope of comedy
14 Texan footballer
15 "Adam's ale"
16 Exemplar of honesty
17 Makers of four luscious examples of 41-Down
19 Stool part
20 Mixture
21 B. & O. and Penn.
22 Source of 52-Down
24 Hit Broadway musical
26 Curmudgeon
27 Declare
30 Days of yore
31 Villa d'____
35 Lasso loop
36 Impassive one
38 Small drink
39 One flavor from 17-Across
42 Printers' measures
43 Truism
44 Cowboy's prop
45 Begonia beginning
47 Comic Bill, for short
48 Ball-and-wicket games
49 Give____ for one's money
51 Ballerina's garb
52 Hacienda houses
54 June honoree
55 Apiece
59 Damage
60 How 17-Across's products are flavored
63 Fury
64 Frenziedly
65 Emancipated
66 Motorist's grp.
67 Mardi Gras kings
68 "Have____ trip"

DOWN

1 Trail
2 Turkish chieftain
3 Aeons
4 Characteristic of 17-Across's products
5 Sunday speech: Abbr.
6 Cognizant
7 Hoover and others
8 Nibbled
9 Occurring regularly
10 Make an attempt at
11 Cricket need
12 Toe the line
13 Implore
18 Sea eagle
23 Exist
25 "____ kick out of you"
26 Botanist's pride
27 Llama's stomping ground
28 Actor Greene
29 Unfettered
30 Moral nature
32 Goof-up, Army-style
33 Mr. or Dr.
34 Fencing weapons
36 Offspring
37 Noted French painter
40 Steve Martin line
41 Cream____ (products of 17-Across)
46 "____ Kapital"
48 Nureyev, to friends
50 Air control aid
51 Bulletin board items
52 With 59-Down, name of Amaretto product made by 17-Across
53 Region
54 Chuck-a-luck need
56 Sailing
57 Musical symbol
58 Infamous alter ego
59 See 52-Down
61 Pull along
62 One____ kind

THIS MONTH'S PRIZES:
1st PRIZE
A refrigerator unit for a home bar to chill your Creamery products.
50-2nd PRIZES
"The Creamery" truck jig-saw puzzles.
100-3rd PRIZES
"I Got Creamed" T-shirts.

Made With Fresh U.S. Dairy Cream

Dunphy's Cream Liqueur, 34 proof, blended and bottled by American Distilled Spirits Co., Pekin, Ill.
Cara Mia Amaretto Cream Liqueur, 34 proof, produced and bottled by Fleischmann Distilling Co., Pekin, Ill. Droste Cream Liqueur, 34 proof, produced and bottled by Droste Liqueurs, U.S.A., Pekin, Ill. Wimbledon Strawberries and Cream Liqueur, 34 proof, produced and bottled by Fleischmann Distilling Co., Pekin, Ill.

Edited by Will Shortz

PENCILWISE

RightAngles

by E.R. Galli

The special twist of RightAngles is that each word or phrase, when entered in the puzzle grid, makes one right-angle turn somewhere along its length. It's your task to determine where each word makes this turn and in which direction.

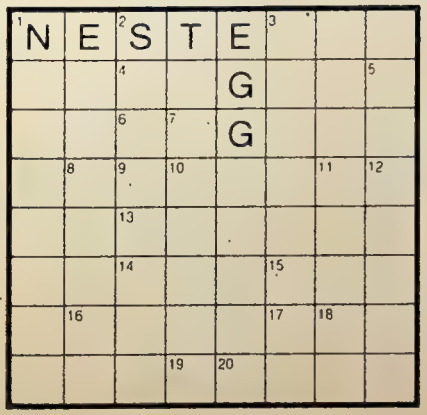
As a guide, the starting direction of each answer word (*before* the right-angle turn) is indicated by a letter after the clue number: *n*orth, *s*outh, *e*ast, *w*est. Of additional help is the fact that each letter in the correctly completed grid appears in exactly two words, no more, no less.

For RightAngles #1, the words to be entered in the grid are listed. The first answer has been filled in to start you off.

For RightAngles #2, only the definitions of the answer words are given, with the number of letters in each answer in parentheses. A little help has been provided here, too. (Don't forget that the letters in HELP have been used once so far, and each must still be part of a second word.)

Answer Drawer, page 90

RightAngles #1 ★



1E NEST EGG
2S SEMICOLON
3E CHEFS
4W EGOS
5W FINGERBOWL
6W MASON
7N RETE
8S MORELLO
9W IMAGE
10E BIMINI
11S INLAY
12S NOEL COWARD
13W COED
14S ALLOW
15N COMANCHE
16W ENDED
17S YAM
18E ALE
19W CLOWN
19E CHAMELEON
20N HOOLIGANS

RightAngles #2 ★★

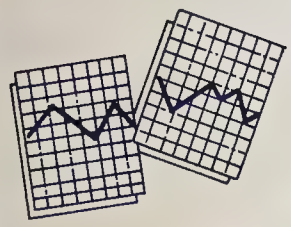
1W Carroll's adventuress (5)
2S Diner's music source (7)
3W Toronto baseballers (4,4)
3S Hand drum (5)
4E Cowpoke's horse (6)
5S Dreaded exile site (4,4)
6S Abnormal thing (5)
7S Man of steel? (5)
8S African nation (5)
9S Sink one's teeth into (4)
10S Orange or Sugar (4)
11S Magazine copy (5)
12N Tenochtitlán residents (6)
13N Four-time adjective for Koufax (2-3)
14S Minnie, in the song (7)
15N Expectant (7)
15E Indian greeting, in old movies (3)
16N Stop transmitting (4,3)
17N "_____ Rose" (song oldie) (8)
18E Bridge cost (4)
19N Prefix with sphere (4)
20E Houseplant with colorful leaves (6)

"Double Meant" Twins ★

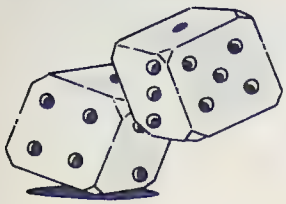
by K. M. Paskert

Here's a quiz that will double your pleasure, double your fun. Each image on this page should suggest a single word beginning with the letters PARA. For example, the first picture represents "paragraphs." Can you identify the others? Hint: *None* of the answers is "paraphenylenediamine." A perfect score is proof of paranormal ability. *Answer Drawer, page 86*

1.

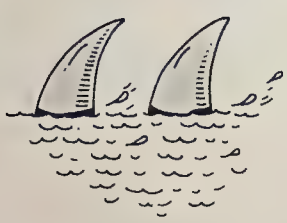


2.

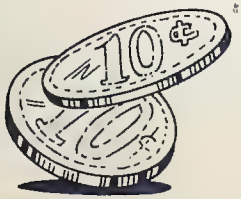


3.

4.



5.

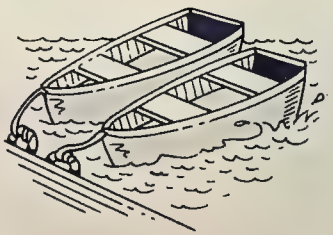


6.

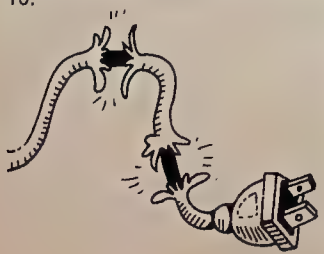
7.

8.

9.



10.



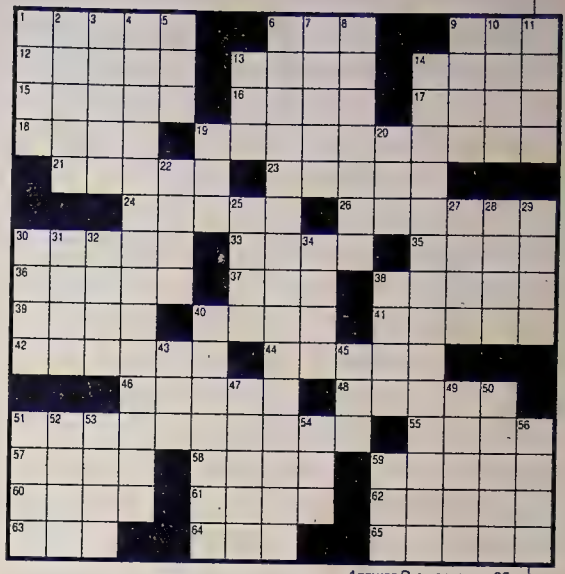
11.

12.

ILLUSTRATIONS BY TERESA ANDERKO

Mixing with Royalty ★

by Ellen Lazer



ACROSS

1 Syrian's neighbor
6 Mr. Earl Jones, for short
9 Classifieds
12 TV's "encore performance"
13 Coarse file
14 Matty, Felipe, or Jesus
15 Monster-from-outer-space movie, 1979
16 Eight: Prefix
17 Green "outdoor carpeting"
18 Not front or back
19 Lighting the fires again
21 Nervous
23 Beginning
24 The ____ the line (last stop): 2 wds.
26 Extra ones
30 Slatelike rock
33 Comedian Bert
35 It's a great lake!
36 Spooky
37 Actor Wallach
38 Compete with Hans Brinker
39 Tucson's state: Abbr.
40 ____ weevil
41 Smarter
42 Up-____ (modern)
44 A man-____ talk
46 Cotton packer
48 Triangle's corner
51 Bonbons
55 Not daughters
57 Not this
58 Ye ____ Tea Shoppe
59 Hand a few laughs
60 Solemn promise
61 Require
62 Ease off: 2 wds.
63 Small milk carton sizes: Abbr.
64 Six-point plays, in football: Abbr.
65 Picture within a picture

DOWN

1 Messrs. Levin and Gershwin
2 Brightened the room again
3 Thumb ____ (hitchhike): 2 wds.
4 Prince Charles's "mum": 2 wds.
5 Motel forerunner
6 Very handy handyman
7 Patty Duke ____
8 TV advertiser
9 Jai ____
10 Winter jacket filler
11 Vocalized
13 Fish eggs
14 They couldn't put Humpty together again: 4 wds.
19 Checker color
20 Investigator: Abbr.
22 Snick's partner
25 Butter substitute
27 Baseball statistics: Abbr.
28 Stravinsky's ____ *of Spring*
29 Fortuneteller
30 Chair or pew
31 Submarine sandwich
32 Dry as the desert
34 Hawaiian city
38 What the Ugly Duckling became
40 New York racetrack
43 Make lace
45 Not pa's
47 Fished for lampreys
49 Oafs
50 Follow
51 "Hold everything!"
52 "____ in the world?"
53 Food, in a diner
54 Senator Kennedy
56 Back-to-school month: Abbr.
59 Actress MacGraw

Answer Drawer, page 85

How to Hug ★

By Danny Lazer

There's an old story about a boy who borrowed a library book titled *How to Hug*, thinking it would tell him everything he wanted to know about lovemaking. You can imagine his disappointment when he got home and discovered that the book was just one volume in a set of encyclopedias. Recently there's been a rash of such misunderstandings at our local library. A seamstress mistakenly checked out *Eye of the Needle*, and *Fahrenheit 451* was borrowed by an oven manufacturer. Additionally, each of the books listed at the right, below, was borrowed by one of the people listed at the left. Can you match the books to the misguided borrowers?

Answer Drawer, page 88

____	1. Cleaning woman	A. *All the King's Men*
____	2. Chess master	B. *The Complete Book of Running*
____	3. Crop duster	C. *The Day of the Locust*
____	4. Fisherman	D. *Deliverance*
____	5. Gardener	E. *For Whom the Bell Tolls*
____	6. Interior decorator	F. *From Here to Eternity*
____	7. Lab worker	G. *The Happy Hooker*
____	8. Midwife	H. *Of Mice and Men*
____	9. Politician	I. *Ragtime*
____	10. Submarine officer	J. *Roots*
____	11. Telephone operator	K. *A Study in Scarlet*
____	12. Undertaker	L. *Watership Down*

Find the Word Squares ★★

by Edith Rudy

Forty-two 4 × 4 double word squares are concealed in the block of letters below, counting the example circled in the upper left corner. How many of them can you find? Unlike regular 4 × 4 squares, in which the same four four-letter words read across and down, these double squares contain eight different four-letter words each, half reading in each direction. Only relatively common, uncapitalized words appear in these squares. Just to be mean, though, we've overlapped squares and put lots of four-letter words in the grid that aren't used. So keep your eyes squarely on the page and remember, squares that miss by one or two words don't count.

Answer Drawer, page 86

W	O	R	D	C	L	E	F	L	A	T	E	G	R	O	W	N	S	O	S	A	L	T	H	I	N	T	O
I	D	E	A	L	A	V	A	U	R	A	I	N	A	V	E	A	L	U	L	I	E	U	O	V	A	L	E
R	O	A	M	O	N	E	R	A	M	S	T	A	G	E	S	A	S	H	A	D	E	S	W	A	P	E	S
E	R	R	S	T	G	A	M	U	S	K	I	T	E	N	T	U	N	A	P	E	R	K	I	L	O	A	F
S	O	F	L	I	T	R	A	Y	S	I	D	O	L	L	A	T	O	M	I	C	H	I	N	T	O	R	E
K	A	R	I	D	E	A	R	C	A	P	E	P	S	G	R	O	W	S	O	R	E	D	O	O	R	B	S
I	R	O	N	Y	X	F	L	A	G	O	G	R	E	N	A	P	E	E	N	A	I	L	S	P	O	L	O
N	A	M	E	L	T	H	I	S	U	N	G	I	L	A	J	A	R	F	O	G	R	E	Y	U	S	E	D
C	R	E	W	E	R	O	O	K	E	Y	S	P	O	T	A	L	E	S	S	H	I	N	O	S	E	W	S
H	E	N	S	C	A	N	T	I	N	C	H	A	R	E	T	A	L	O	E	A	S	T	R	I	O	T	A
A	R	C	H	O	M	E	A	N	I	L	O	N	E	S	T	I	S	L	E	T	S	Y	A	R	D	E	N
R	E	L	O	D	E	S	U	C	H	A	P	E	S	T	A	R	E	E	K	E	E	P	I	E	D	G	E
D	R	O	P	E	N	T	R	L	O	N	E	W	T	A	L	E	E	R	N	A	P	E	N	D	S	A	W
R	A	V	I	D	L	E	S	A	U	T	O	T	O	P	E	N	D	S	O	V	E	R	A	S	C	O	W
A	F	E	N	D	R	A	W	W	R	E	N	D	W	E	E	D	U	M	B	E	E	T	C	H	A	R	E
S	T	R	E	Y	O	R	E	N	O	B	O	E	R	G	S	A	S	E	A	T	T	Y	R	O	R	A	L
H	O	O	P	E	V	I	L	E	W	O	V	E	R	B	I	T	E	E	N	C	A	P	E	D	E	L	L
Y	E	W	E	S	E	A	L	A	S	N	A	P	I	A	F	A	R	K	S	O	S	O	W	S	A	S	S
D	G	I	V	E	S	W	O	K	E	E	L	A	I	C	O	M	A	R	E	A	R	S	A	P	R	O	P
T	A	P	E	X	K	E	P	I	C	K	A	N	C	H	O	O	T	A	R	T	I	S	T	A	C	M	E
E	D	E	N	Y	O	D	E	N	T	A	W	I	F	E	L	K	S	A	V	E	R	B	O	S	H	E	D
M	A	R	A	T	A	C	T	A	U	W	A	C	I	D	O	O	M	P	H	O	B	O	B	O	E	Y	E
I	T	E	M	I	F	F	C	R	B	O	L	O	N	G	S	T	U	B	A	V	O	W	E	A	R	E	M
R	U	N	E	C	R	U	H	C	A	L	K	N	E	E	E	A	S	E	R	A	I	L	Y	R	E	S	T
C	A	D	S	E	E	R	A	O	X	E	N	O	F	L	A	X	E	S	E	L	L	S	E	A	C	N	E
A	R	E	A	R	T	Y	C	A	L	T	O	U	R	A	M	I	S	T	R	U	E	P	U	S	H	I	N
F	I	L	L	S	E	V	I	L	E	S	T	L	O	V	I	N	E	O	G	R	E	O	N	H	O	P	S
E	D	I	T	H	R	U	D	Y	A	L	E	E	S	O	N	G	A	W	O	E	S	T	O	O	P	P	Y

Gridlock ★★

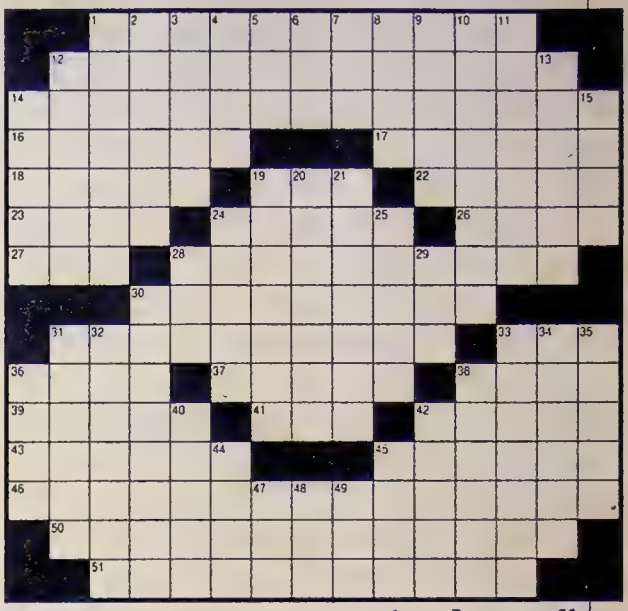
by Mike Shenk

ACROSS

1 Tom Corbett and Roger Manning of early TV: 2 wds.
12 Pungent vegetables
14 Parole board action: 2 wds.
16 Saturn's neighbor
17 Works off intoxication, with "up"
18 Pius and John Paul, e.g.
19 Hightail it
22 Washington sound
23 Baseball's Slaughter
24 Printed defamation
26 Bills, later
27 Kreskin's display
28 How chain smokers smoke
30 Witches' cats, perhaps
31 Rare metal used in steelmaking
33 Marsh
36 Poet Teasdale
37 Lullabies
38 Somewhat, musically
39 Subpoenas, e.g.
41 His, to Henri
42 Called to Bossy
43 Vinegary
45 Like a dose of strychnine
46 Expansionist's doctrine: 2 wds.
50 Great physical effort
51 Bun toppers: 2 wds.

DOWN

1 Soft drink: 2 wds.
2 One-time plums
3 Fungus spore sac
4 So-so grades
5 ___ shrew (European mammal)
6 Job for Poirot
7 Fruit drink
8 Clamors
9 Bar, legally
10 Chicago cagers: 2 wds.
11 West African nation
12 Wading birds
13 Out of whack
14 Calcutta coin
15 Superlative suffixes
19 Lustful desires
20 Kansas town on the Chisholm Trail
21 Apportionments
24 "Frisky" animals
25 Oahu cookouts
28 ". . . and that ain't ___"
29 Kind of wrestling
30 Motorist's mishap: 2 wds.
31 ___ Registrada (®)
32 Sets one's bearings
33 Greeting for the villain: 2 wds.
34 Seas
35 Righteous
36 Did the backstroke
38 Lit to the gills
40 Bank fixtures



Answer Drawer, page 88

42 Intermediate, in law
44 Musical Horne
45 ___ *majesté*
47 Aggregate
48 Boot part
49 German pronouns

Squeeze Play ★★

by Wayne Williams

Each word in the shaded box can be squeezed into one of the 16 numbered words below to form a new word, to be entered in the space provided. For example, by squeezing ATOM into ANY (# 1), you spell the new word ANATOMY. The shaded words are each used exactly once, so cross them off as you use them. If you get in a tight spot, you'll find the answers on page 90.

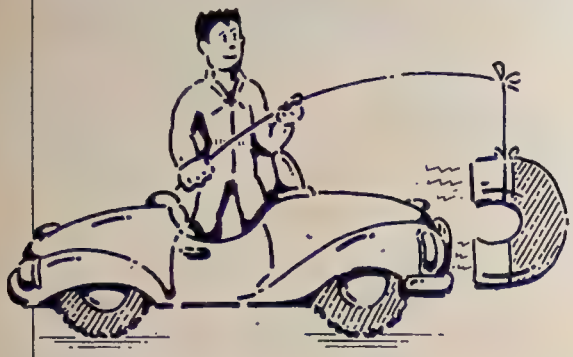
Words To Be Inserted

ANTI ~~ATOM~~ DREAD ISLE LOG NET OPERA PART
QUEST SIDE SIGN SINES THOU UGH URGE YES

1. ANY ANATOMY
2. BUSES
3. CLEVER
4. COMMENT
5. CONE
6. COTE
7. COURSE
8. DEER
9. EIGHT
10. LATER
11. MAD
12. MAGIC
13. MINER
14. RENT
15. SEER
16. SON

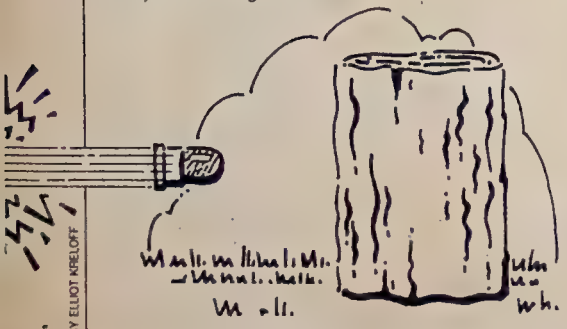
Thinking Physics ★☆

You could call it painless physics. There's nary a theory nor an equation in these 11 illustrated questions—just some practical problems that test your intuition of how and why things work the way they do. Warning: Some of the answers may surprise you. Think of them as mental push-ups, and be prepared for a workout. *Answer Drawer, page 90*



1. MAGNET CAR Will hanging a magnet in front of an iron car, as shown, make the car go?

a) yes, it will go
b) it will move if there is no friction
c) it will not go

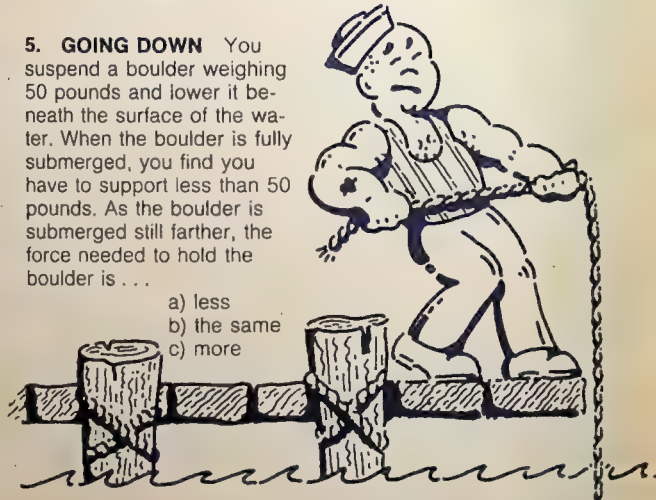


2. RUBBER BULLET A rubber bullet and an aluminum bullet both have the same size, speed, and weight. They are fired at a block of wood. Which is more likely to knock the block over?

a) the rubber bullet
b) the aluminum bullet
c) both the same

4. COLD BATH This is a bathtub brim full of ice-cold water with an iceberg floating in it. When the iceberg melts, the water in the tub will

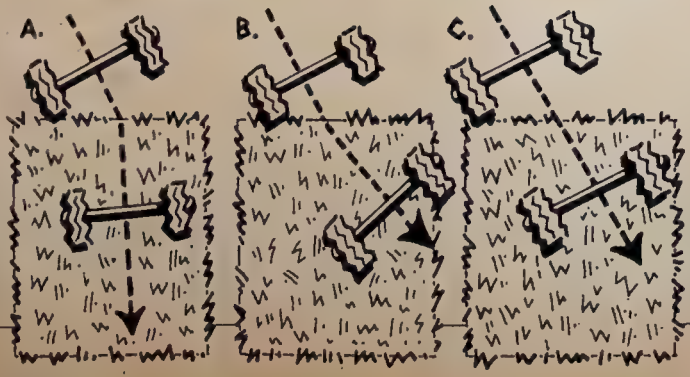
a) go down a little
b) spill over
c) stay exactly brim full without spilling



5. GOING DOWN You suspend a boulder weighing 50 pounds and lower it beneath the surface of the water. When the boulder is fully submerged, you find you have to support less than 50 pounds. As the boulder is submerged still farther, the force needed to hold the boulder is . . .

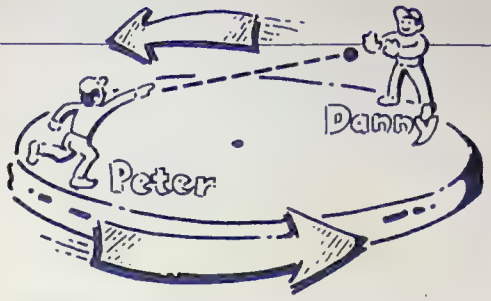
a) less
b) the same
c) more

3. TURNING CART WHEELS Suppose a pair of toy cart wheels connected by an axle is rolled along a smooth sidewalk and onto a grass lawn. Due to the interaction of the wheels with the grass, they roll slower there than on the smooth sidewalk. When the wheels are rolled at an angle onto the lawn, which of the paths at right will they take?



ILLUSTRATIONS BY ELLIOT KRELOFF

by Lewis C. Epstein and Paul G. Hewitt



6. CAROUSEL Peter and Danny are standing on a carousel which is turning as illustrated. Peter throws a ball directly toward Danny. The ball . . .

a) gets to Danny
b) goes to the right of Danny
c) goes to the left of Danny.

7. TOUGH NUT A nut is very tight on a screw. Which of the following is most likely to free it?

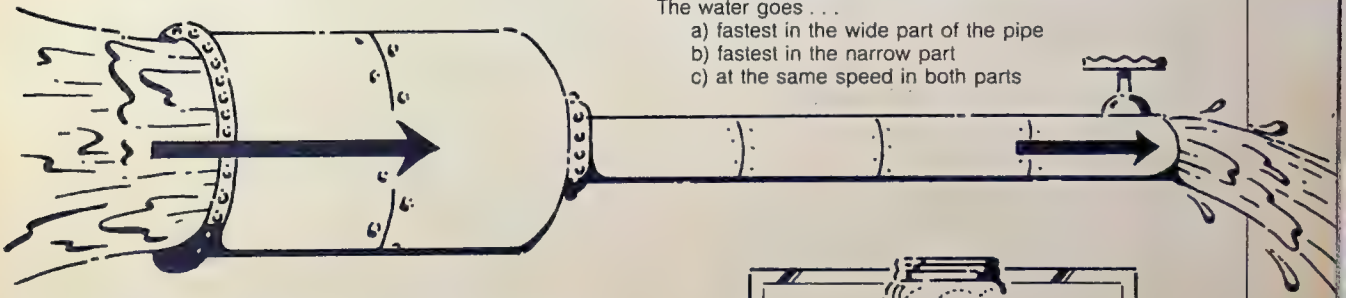
a) cooling it
b) heating it
c) either
d) neither

9. TORQUE Harry is finding it difficult to muster enough torque to twist the stubborn bolt with a wrench, and he wishes he had a length of pipe to place over the wrench handle to increase his leverage. He has no pipe, but he does have some rope. Will torque be increased if he pulls just as hard on a length of rope tied to the wrench handle?

a) yes
b) no

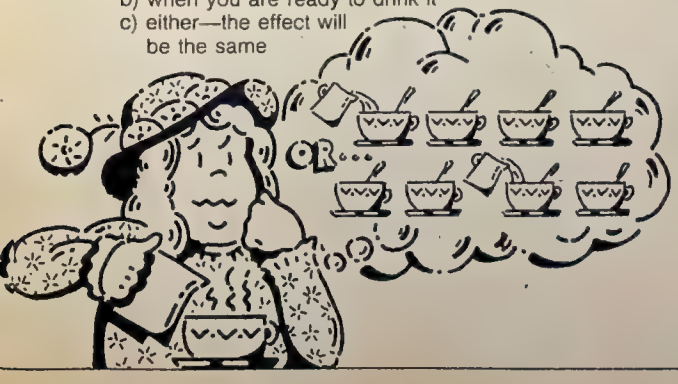
10. BOTTLENECK Ten gallons of water per minute is flowing through this pipe. Which of the following is correct? The water goes . . .

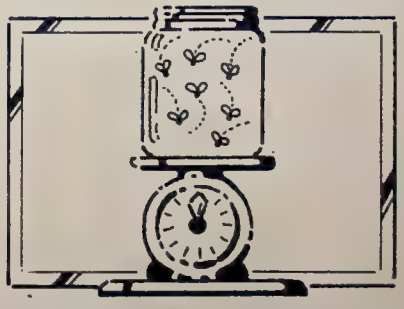
a) fastest in the wide part of the pipe
b) fastest in the narrow part
c) at the same speed in both parts



8. CREAM IT Suppose you are served coffee at a restaurant and want it to be hot when you are ready to drink it a few minutes later. You should add the room-temperature cream to it . . .

a) right away
b) when you are ready to drink it
c) either—the effect will be the same





11. JAR OF FLIES A bunch of flies are in a capped jar. You place the jar on a scale. The scale will register the most weight when the flies are . . .

a) sitting on the bottom of the jar
b) flying around inside the jar
c) neither; the weight of the jar is exactly the same in both cases

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Dszquphsbnt! ★☆

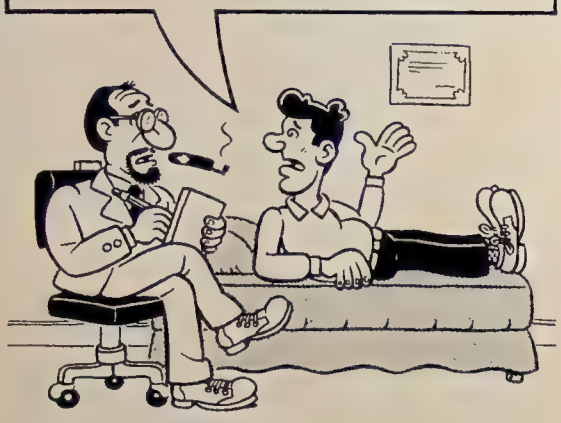
by Dick Crawford

Below are seven messages, consisting of pithy sayings, fascinating facts, and a cartoon gag, which have been translated into simple code alphabets. Letter substitutions remain constant throughout any one cipher, but change from one cipher to the next, and the level of difficulty increases as you progress. An asterisk (*) indicates a proper noun.

Clues are given at the bottom of the page to provide assistance if you need it. *Answer Drawer, page 87*

1. CRYPTOON

ETQ ISH FR XW QTOUSFOU?
WFG XGUQ AT MSHHSOE: S
LFGJHO'Q HF QVZQ—QVTW ZIT
ZJJ QVZQ. SU VFJHSOE XT
QFETQVTI.



2. SPECIALIZATION

CH YTVAYTOO SOTNADV UTK MTJA SCKUM MCWWADV, QMN UTK'W AJADNBKA? WMAK ATUM BH LV UBLOI IB ZLVW QMTW QA AKZBN TKI IB DATOON QAOO.

3. GARDENER'S VIEWPOINT

CTA WAKC XBFC JL BICIPM RK CTA WFRAL XAFRJZ QTAM CTA SBQM MJ SJMHAF MAAZK PJQRMH BMZ CTA SABUAK TBUA DAC CJ LBSS.

4. INVESTMENT TIP

MXWFAULJESC FUWJZVQUPFL ES *AUKEMXWSEU BUT IFAXBF DWXMEJUIKF LXBFHUT, IQJ LX MUW EJ EL VQEJF U LZUPT DWXDXLEJEXS.

5. PRIVATE JOKE

SPF *YVKG WYGZBM: ZA ZL KSQHW, WYPJLH ZL. ZA ZL FSHWB'L KSQH, XZIO ZL JX. ZA ZL ZW LSS UZM LS XZIO JX, XYZBL ZL.

6. BRUSHING UP

VQL BUR IV XLKLKALX RVHX GLQIUJ UWWVYQIKLQIZ YZ UJBURZ IV KUFL IOLK SVX IBV IOYXIR ("IVVIO OHXIR").

7. NOSTALGIA

YZ MHXX NPZD NPZ "OWWC WXC CHIR" FZMHGRZ YZ YZQZ VWN OWWC, YZ YZQZ VWN WXC, HVC YZ YZQZ NHXSKVO HFWGN NPZ VKOPNR.

CLUES

Cipher 1: Ciphertext LFGJHO'Q ends in the contraction -N'T.
Cipher 2: The doubled letters OO and WW represent LL and TT respectively.
Cipher 3: Plaintext THE appears four times.
Cipher 4: The prefix PRO- appears twice in the plaintext.
Cipher 5: The ciphertext ZL, appearing six times, represents a pronoun.
Cipher 6: The six vowels, A, E, I, O, U, and Y, are represented by (in no order): H, L, R, U, V, and Y.
Cipher 7: The ciphertext HVC precedes the third of three phrases with parallel structures. What word is it likely to be?

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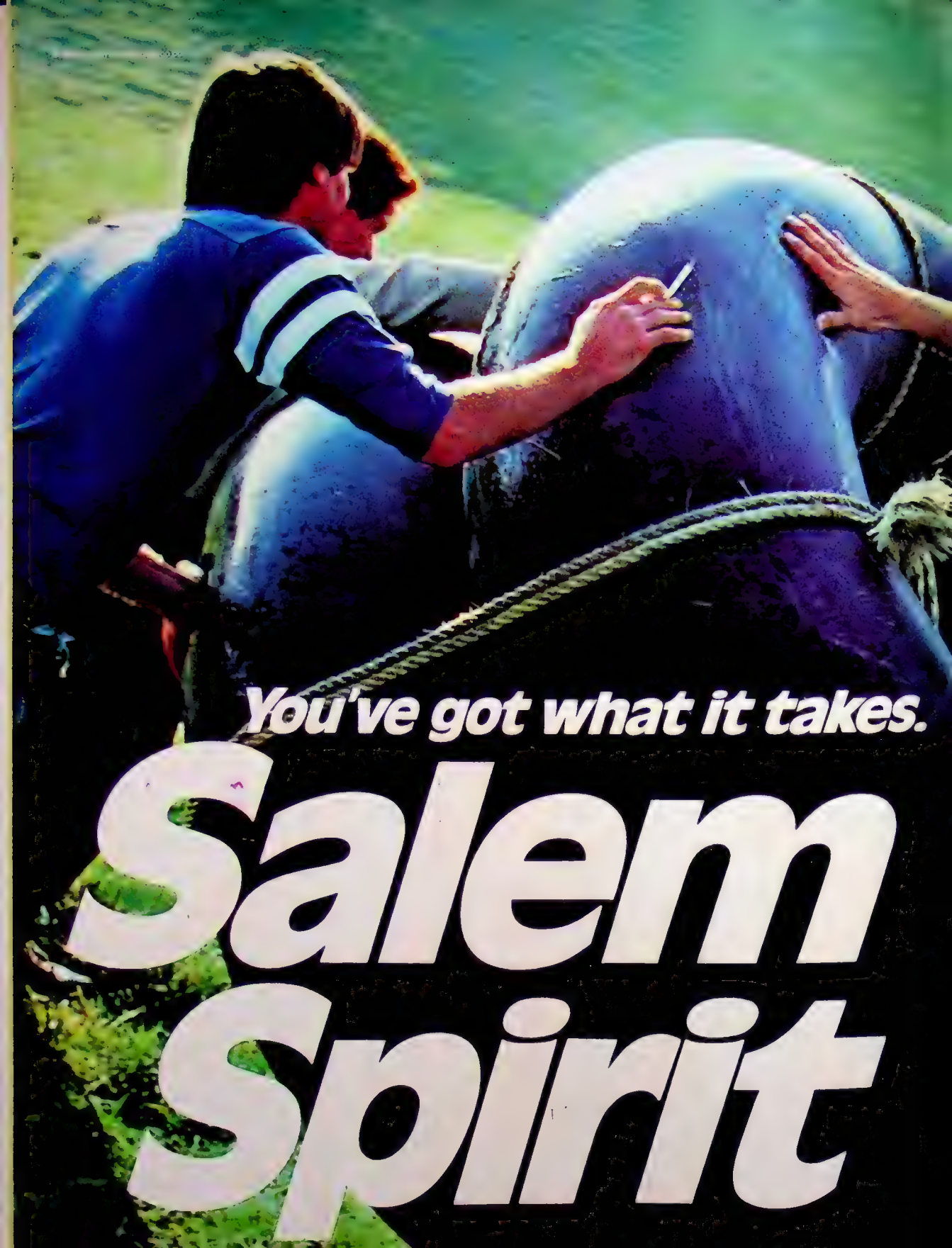
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Salem
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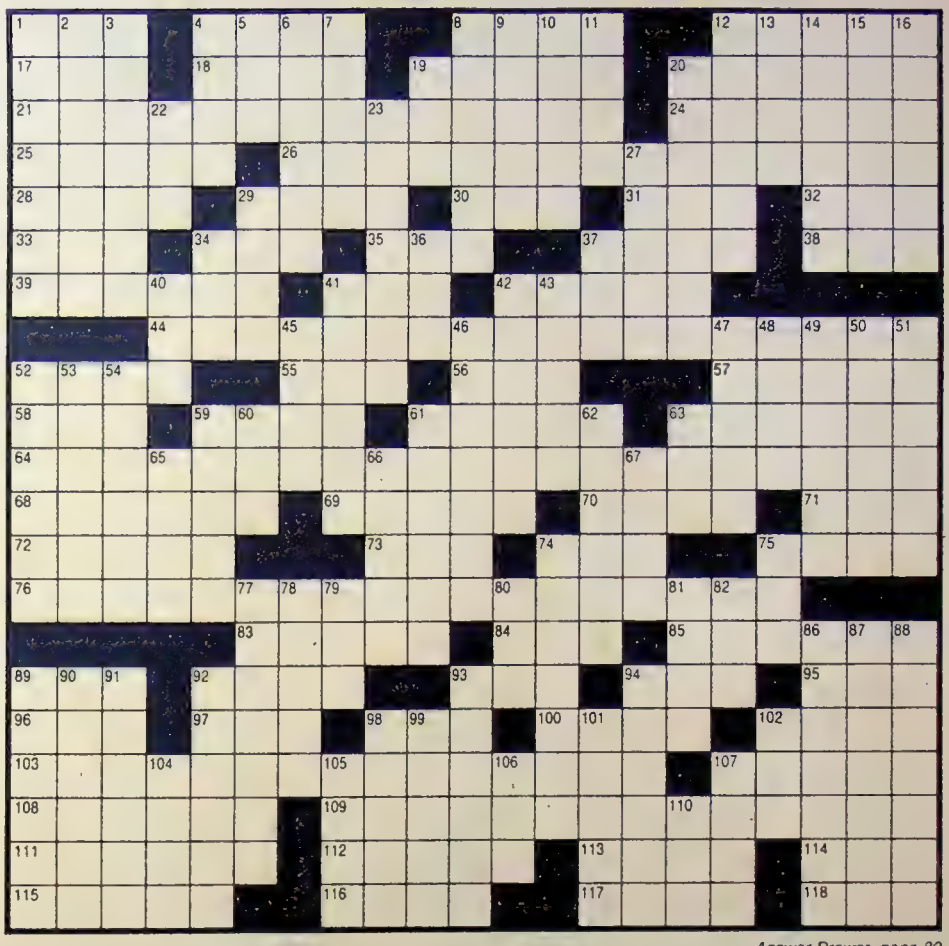
In a Hurry? ★★★

by A. J. Santora



Answer Drawer, page 89

ACROSS

1 SOSer's need
4 Principal
8 Little lice
12 Adjective for Reynolds or Selleck
17 Puzzling beast
18 Peter the sketchman
19 "*Vive* ___!"
20 Turned thumbs down
21 Sharp like emcee Martindale?
24 Maroon
25 *Drang*'s partner
26 Films a turbulent river?
28 In a little while
29 Biased Italian town?
30 Mock cry
31 Resinous substance
32 Alpha-beta kin
33 Palindromic city in Korea
34 Night of poetry
35 "Lowest form of humor"
37 Cable
38 Smoke detectors?
39 Harem
41 AWOL sailors?
42 Drink for Drac
44 Place serving minute steaks?
52 Aide: Abbr.
55 Mme. Tussaud's medium
56 Jazz style
57 Cry of defiance
58 Craft lace
59 ___ *tardi* (so long)
61 African metropolis
63 Devilfish
64 Discoing in '90s garb?
68 ___ rod (Hank's bat?)
69 Spock's voyages
70 Indian farmer
71 Capek opus
72 Ridge
73 Singleton
74 Chemin de ___
75 Dame Myra
76 Harvard's "just desserts"?
83 Temporary breath loss
84 Outdated
85 Start
89 Its, in Paris
92 "___ Little Tenderness"
93 Raises
94 Brit. mil. medal
95 Kind of heel in Carolina
96 Unclose
97 *Xanadu* musicians, for short
98 Farming: Abbr.
100 Currier's cohort
102 Meet one's Waterloo
103 Cars in the 5:00 shadows?
107 Eccentric blokes
108 Chi-chi, and then some
109 The mouse that roared?
111 Superman, on the home screen
112 Voids
113 Plan not yet on paper
114 Wrath
115 Senator Kefauver
116 Money players
117 No-good look
118 Here, oddly enough

DOWN

1 Glacial lake of North America
2 Forthcoming
3 Illinois city
4 Injure
5 Bow
6 Blackens
7 ___ Ark
8 Gravity man
9 Gaelic
10 Scout master?
11 Hindu religious sect
12 Threaten
13 Eagerly awaiting
14 Trig function
15 Delayed
16 Forsyth "File"
19 ___ -ise
20 Porch
22 Samovar
23 Orator's perch
27 Silas Marner's creator
29 Shooter items
34 Bambi's aunt
36 G.I. troupe
37 Word in some city names
40 Stern
41 To ___ (excessively)
42 Bovine IDs
43 The real McCoy
45 Taunt
46 Under the influence
47 Whole
48 Soaks flax
49 Words with *santé*
50 Words with *ultra*
51 Prosecutors
52 Put together
53 World's largest sandbox?
54 Cubic meters
59 *Family Feud* teammate?
60 Letter addenda
61 Hellenic headband
62 Discerning
63 Trafalgar tramp
65 Swarm
66 Gradually disappear
67 Mexican wildcat
74 Misrepresent
75 White House monogram
77 Betting rooms
78 "Wake ___ sleepyhead . . ."
79 Genetic carrier
80 Reaganites: Abbr.
81 *Mahogany* star
82 Hall and Oates, e.g.
86 Informer
87 Borman's airline
88 With hair to spare
89 Like June days?
90 Full-scale blueprints
91 Six-line stanza
92 Giggles
93 Egyptian asp emblem
94 Do spy work
98 On face value
99 José, Buddy, or El
101 Night watch
102 Mauna ___
104 Waxworks?
105 Invite initials
106 They watch what we eat: Abbr.
107 Despot
110 Once named

Shedding Light ★★

A Maze by Mike Shenk

"...a light unto my path."—Psalms 119:105

Answer Drawer, page 86

Cryptic Crossword ★★★

by Gary Disch

The Warm-Up Puzzle at right contains all the basic types of clues you're apt to encounter in a cryptic crossword. Like all cryptic clues, each contains two parts: a direct or indirect definition of the answer and a second description of the answer through wordplay. The first step in solving a cryptic clue, and a great part of the fun, is to determine the dividing point between the parts. Consider some sample clues:

"Rioting at great boat race (7)." This is an example of an anagram clue. The word "rioting" suggests jumbling the letters in the adjacent words AT GREAT, to get the answer, REGATTA (defined as "boat race"). An anagram is always indicated by a word or phrase suggesting mixing or poor condition. The number given in parentheses after the clue tells you the number of letters in the answer

"Remain in Amherst a year (4)." The answer, STAY ("remain"), is literally found in the letters of "AmherST A year." This is an example of a hidden word

"Pole and Russian engaged in a dispute (7)." You must look beneath the surface meanings to solve this clue. A pole on a ship is a SPAR, a Russian is a RED, and "engaged in a dispute" is SPARRED. When two or more small words are joined to form a longer one, the clue is called a charade.

"It is held by a light brown giant (5)." The word IT is literally held by the word TAN ("a light brown") to form the answer, TITAN ("giant"). This is called a container clue.

Other tricks of clue-solving have been explained in previous issues. If you are new to cryptic crosswords, start with the Warm-Up Puzzle at right and refer to the Answer Drawer for explanations.

Warm-Up Puzzle for New Solvers ★

With detailed explanations in Answer Drawer, page 87

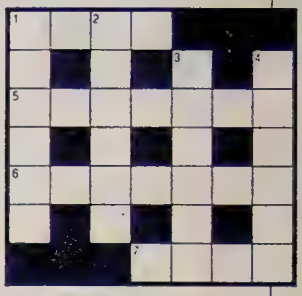
by Will Shortz

ACROSS

1 Shipment said to come from the silver mine (4) *homophone*
5 Real ingenue in disguise (7) *anagram*
6 One in three travel by permit (7) *charade*
7 Skunks have it. So do rats, to some degree (4) *hidden word*

DOWN

1 Lamps will be provided in airplane rides after the first (6) *beheadment*
2 Impish cartoon boy did a no-no on the escalator (6) *reversal*
3 Sick in bed, as charged (6) *container*
4 I, for example, dispatch (6) *second definition*

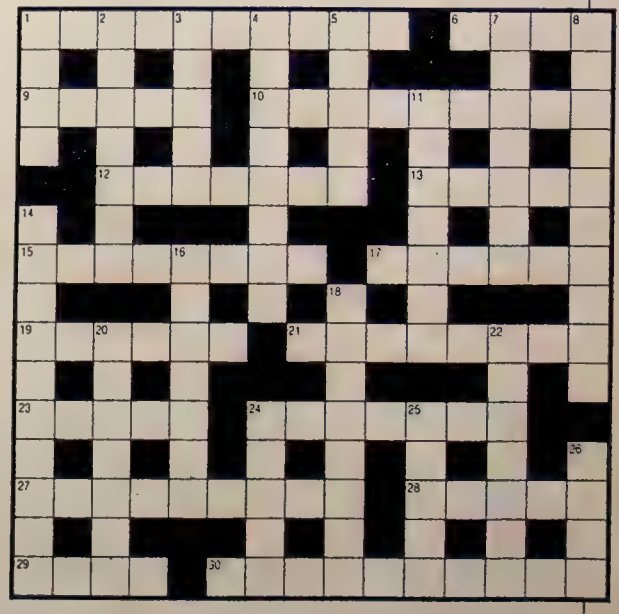


ACROSS

1 This involves taking everything off the damaged tapestries (10)
6 Exchange hands the wrong way (4)
9 Send stopwatch back (5)
10 Firm in-step is highly valued (9)
12 Position held by stout religious man (7)
13 Ones in world organization sit irregularly (5)
15 Broke into dried nut mixture (8)
17 Stay in Berlin, Germany (6)
19 Heartlessly chop ice with a pick (6)
21 Stripe on Miss Pavlova's neckerchief (8)
23 Composer has unusual drive (5)
24 After dinner, the German makes soup (7)
27 Lovers romp endlessly with ludicrous jokes (9)
28 Go from Maple Avenue (5)
29 Finished reciting English poet (4)
30 Father keeps letters back from the legislature (10)

DOWN

1 Tender as a rose, perhaps (4)
2 L.A. football player with role in defense (7)
3 Softly, at ten, in the courtyard (5)
4 Licenses made of tin-steel alloy (8)
5 Observed oral part of play (5)
7 Conflict over Chinese dynasty is heating up (7)
8 Unimaginative pedantries should be rewritten (10)
11 Thought to cash in one's chips in poker game (7)
14 Found record completed of French uprising (10)
16 Ointment: Use with cap removed (7)
18 Song about America's drunkenness (8)
20 Some ran off to become crew members (7)
22 Hurried up with cost report (7)
24 Country tableware (5)
25 Suffering dealt to Greek character (5)
26 Torn lease (4)



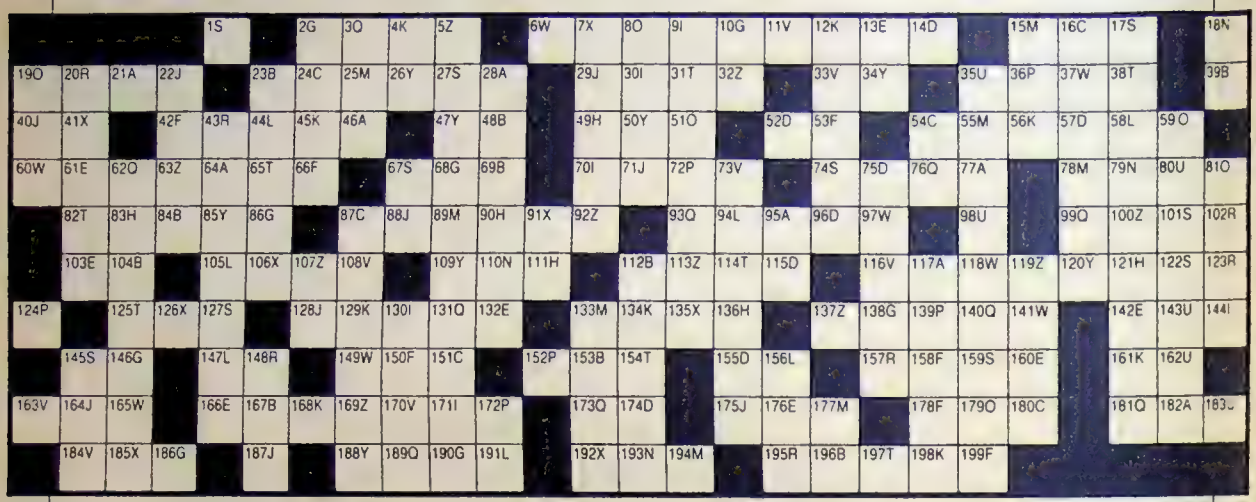
Answer Drawer, page 92

Double Cross ★★

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the author's name and the quotation's source.

Answer Drawer, page 86



A. Incitement to rebellion — 21 28 46 64 77 95 117 182

B. Within one's means — 153 48 112 104 196 69 167 39 23 84

C. Like Boy Blue or Bo-Peep — 16 24 54 87 151 180

D. Humiliation, public contempt — 155 14 174 75 115 52 96 57

E. Small, sharp-beaked bird — 13 61 103 132 142 160 166 176

F. With a hoarse voice — 66 178 158 42 53 150 199

G. Norwegian hunting dog — 86 186 2 138 190 10 88 146

H. What "I Got," according to song — 49 83 90 111 121 136

I. Legendary quarterback Y.A. — 9 30 70 130 144 171

J. Thumb a ride — 164 187 175 128 88 71 40 29 22

K. Diana's mother-in-law — 56 45 12 198 129 161 4 168 134

L. Reminiscent of sardine cans — 105 58 94 191 147 44 156

M. Olympic contestants — 15 25 55 78 89 133 177 194

N. Racetrack tipster — 18 79 110 193

O. Sassy, impudent — 8 19 51 59 81 179

P. Precipitate plunge or dive — 36 72 139 152 124 172

Q. Bewitching — 3 62 131 99 181 76 140 173 189 93

R. Celebrate — 123 20 157 148 43 195 102

S. Not recommended (hyph.) — 1 17 27 67 74 101 145 159 122 127

T. In these times — 65 114 82 125 31 197 154 38

U. Labored mightily — 35 80 98 143 162 183

V. Uncontrollable fit of emotion — 170 73 116 163 108 11 33 184

W. Brief *bon mots* — 165 6 37 97 60 149 118 141

X. System of worship — 91 135 185 7 41 192 106 126

Y. Where Cornwallis surrendered in 1781 — 50 109 85 188 26 47 120 34

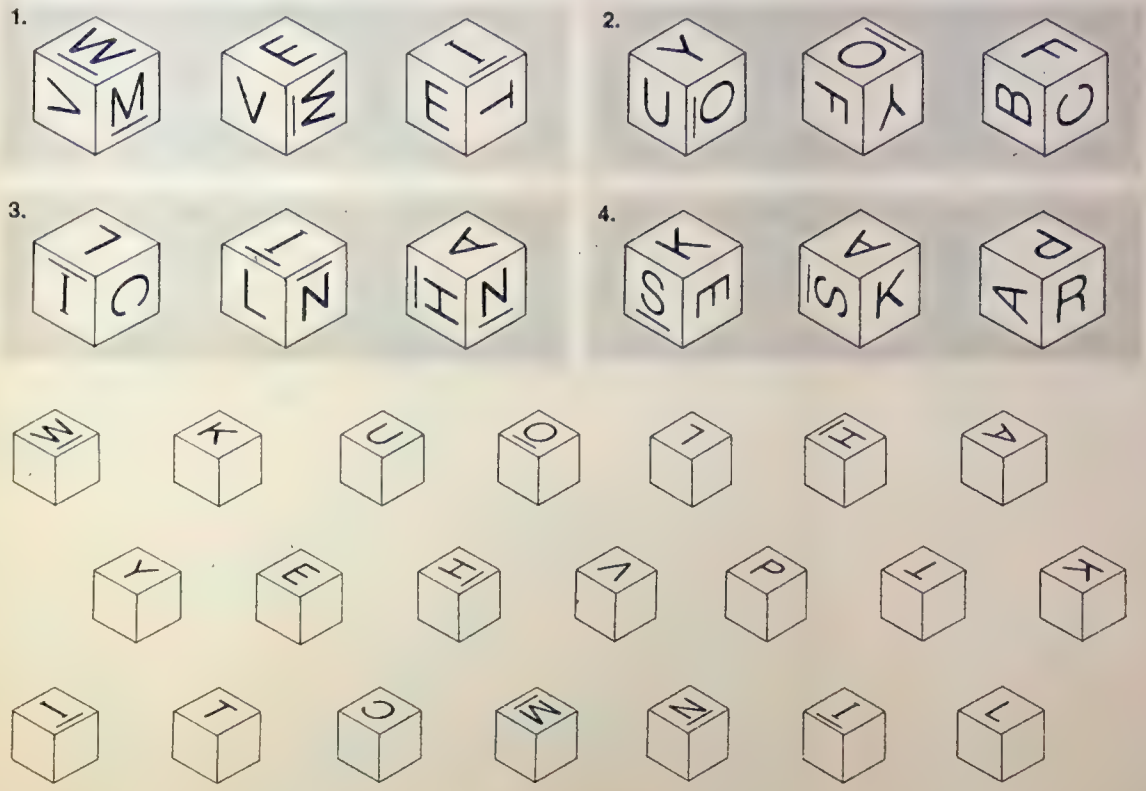
Z. Precipitous ridge of rock — 92 32 169 100 113 5 107 119 63 137

Toy Blocks ★★★

by Bill Hartman

A Logic Puzzle

Four toy blocks are pictured below, each from three different angles to show all six faces. Beneath them are 21 other views of the same blocks, with only the top faces labeled. Your goal: to supply the missing letters on each blank face so that all 42 letters, reading from left to right, will spell a quotation and its author's name. Warning: This puzzle is not easy! Not all missing letters will be right-side-up, and some of the given letters appear on more than one cube. *Answer Drawer, page 92*



Directions for Matchwit ★★★

by Margaret Farrar

A Double-Sided, Two-Player Crossword

The finals of the First U.S. Crossword Open will be taking place August 14, just around the time this issue of *Games* appears in mailboxes and newsstands across the country. But if you weren't named one of the finalists in the national crossword championship, you can still hold a minicompetition in your own home. Here's how:

Find a puzzle partner and seat yourselves opposite each other at a card table or a well-balanced lapboard. Next, open the magazine to the double-sided crossword on the next two pages. Lay the magazine flat between yourselves so that you are both comfortable. Then, at an agreed-upon signal, start solving. Note that eight specially marked Across words span the two halves of the diagram. Each player should fill in the four for which he has clues. If both of you get stuck, the puzzle may be reversed and the solving resumed. The first solver to finish wins.

Historical note: This novelty crossword was constructed by Margaret Farrar in 1954 at the request of the editors of a then up-and-coming new magazine, "Sports Illustrated." The magazine published eight Matchwit puzzles by Mrs. Farrar in all, which she created during a newspaper strike at "The New York Times" (where she was crossword puzzle editor). The humorous clues, written at the suggestion of "Sports Illustrated" editors, were particularly innovative for their day. For more about the life and work of Margaret Farrar, see the profile that begins on page 26.

Answer Drawer, page 88

Directions on page 53

Matchwit "B" ★★★

by Margaret Farrar

Note: Fill in the white squares on your half of the diagram, and the crosshatched (but not the shaded) squares that span the halves.

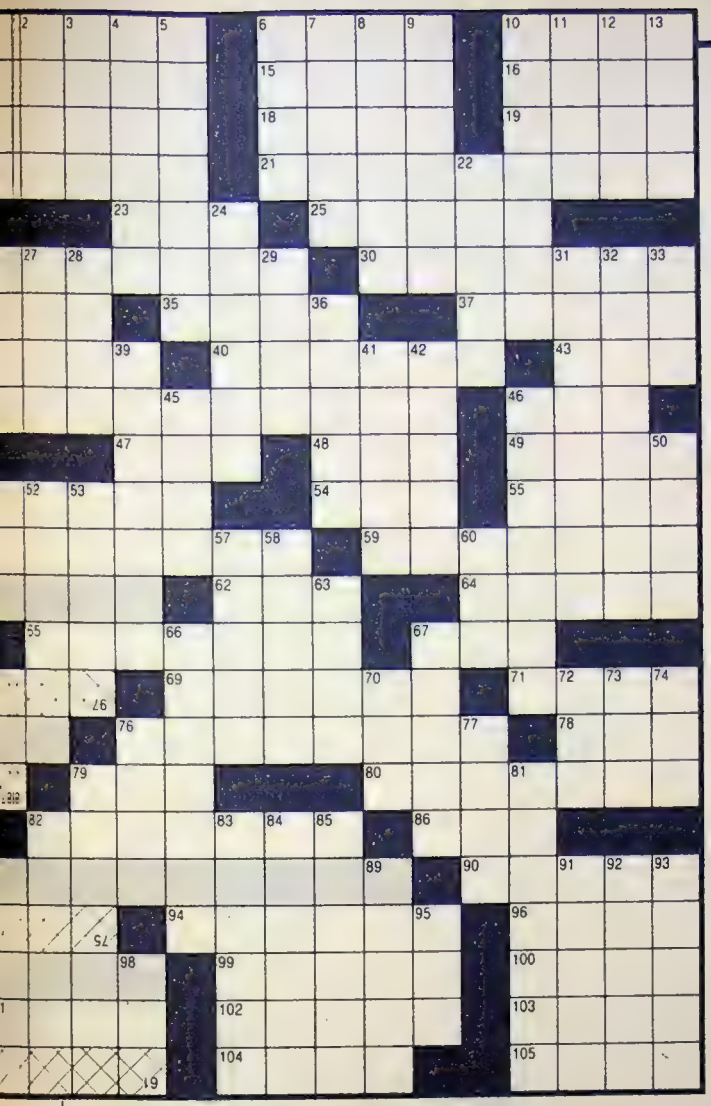
ACROSS

1 Where to live in style
6 Ingredient in shortnin' bread
10 Somebody else's child
14 It wasn't in the cupboard
15 It usually has a yellow streak
16 She's a beaut
17 Capt. Hornblower's notes
18 A short story, usually rendered
19 One is one
20 Bed spread
21 Desks
23 Horse and buggy
25 They have a lot of high notes
26 Mother of Florence
30 Unscrambled
34 Tanguay girl
35 Last four letters in the dictionary
37 Man minus place in the country
38 A kind of call
40 This is not farther
43 Little woman
44 Hamlet and others
46 A small sum
47 Soap substance
48 Grown-up kitten
49 It's mostly ponder

51 Famous name in the reel world
54 Letters to a good playwright
55 United
56 Enough mink for 220 yards
59 Delivered a lecture
61 He takes a bite on the beach
62 A lot of talk when it's hot
64 Word for the old oaken bucket
65 Too-popular Washington verb
67 How to begin the beguine
69 Off-stage character in *Carmen*
71 All that an eggnead has to lose
75 For crying out loud
76 What five is to six
78 Little buzzer
79 What a palefface is
80 It can't leave you speechless
82 Tutti frutti in an old song
86 A piece of spaghetti
87 Man's best friend in the 7th inning stretch
90 Members of the uninteligentsia
94 Adolescent eels
96 Wrap scallion with this
97 Lassie
99 She pants
100 River into Reno
101 The mixup after Port F.
102 All thumbs
103 It's the customary thing
104 To be in retreat
105 Photo finish

DOWN

1 Place for a bridle
ceremony
2 Easterner in tabouret
3 It's situated at the elbow
4 One after the other
5 School term
6 One-fourth of Omar's quartet
7 A coal city near Knoxville
8 The music goes round and round
9 She likes to dance the polka
10 A pessimistic ball team
11 10-Down has them
12 Had a come down
13 "Tsk, tsk, tsk"
22 He's on the right track
24 It's got the edge on Texas
26 Better half of a top Army man
27 Novelio of the home
28 Augusta Wind
29 You have to multiply to get this
31 When they're hot they're ice
32 They make shade while the sun shines
33 Ruler of Tunis
36 Yogi followers
39 Diva's warming-up exercises
41 Backs up
42 Old sword
45 Beginner
46 This is often used in making up
50 The current whirl
51 Kind of hand
52 One of Babe's other titles
53 Wigwam dwellers
57 Symbol of hardness
58 Their presence is requested at the wedding
60 Cockney's dwelling
63 Indian peasant, once a Tory
66 The time of your life
67 The whole hogs
68 A kind of antic
70 It's Greek to me
72 Accessory for Tokyo robe
73 Nora's first name
74 This man is in a state!
76 She turns to Alan
77 Takes forty winks
79 Contents of the flowing bowl
81 They make men, in a nice way
82 What butlers do
83 Melba of the toast
84 It's always coming
85 What follows what?
88 Inventor of talking-animal stories
89 G.I. has rep for this
91 Please remit quality
92 It has gon in Virginia
93 Small mosquito
95 Quiet!
98 Fish dish



Matchwit "A" ★★★

by Margaret Farrar

Note: Fill in the white squares on your half of the diagram, and the shaded (but not the crosshatched) squares that span the halves.

ACROSS

1 This involves dressing for dinner
6 Whoever wears the pants
10 Country butters
14 Best hole on the golf course
15 Where to find your picture in the paper
16 Robert ____
17 Only half believable
18 Red sea
19 Tunney or Tierney
20 Where everything sinks in
21 Relative of *comme il faut*
23 Pose posers
25 Have a nose for news
26 This shows a large turnover, especially Jan. 1
30 Show boat here
34 River runs east by east
35 Troubles
37 Where good sports go
38 Musical country place
40 A bow to Omar Khayyam
43 Bacon's original home
44 He's full of plans
46 It comes between fit and fiddle
47 Fish found in Hungary
48 A. Pat's first name
49 Don't give it up!
51 Popular poplar
54 This is a monkey
55 The kind of yarn you can spin
56 Cause of heated argument with a furnace
59 A well-read letter
61 He packs a trunk
62 A little learning
64 Winner of an Oscar
65 Frog's frolic in the spring
67 A kind of hat
69 They were filled with zest in Mexico
71 Sign on a diner
75 A kind of shovel
76 Keep this up your sleeve
78 "O sole ____"
79 Office boy
80 They're for you when anti
82 Reds on a desert island
86 Pound dog
87 A blonde, in the good old days
90 Fan dance
94 Little fish or little uncle
96 Incan-descent country
97 Can it!
99 Marie Antoinette before she lost her head
100 Singular Shakespearean actor
101 A great many dogs' ages
102 Ticklish money in Bangkok
103 Zubztance found in ze kitchen
104 Mr. Dish
105 Italian family in the West End

DOWN

1 Sisters and brothers
2 ____ year
3 She takes all and nothing
4 Kind of crackers
5 It's all wet
6 He's wiry and has a small head
7 Percolates
8 Big blows
9 Large red cell
10 Kind of guy who's in the Army
11 Relative of 16-Across
12 Soup to nuts
13 A kind of sucker
22 Flash light
24 He got crowned in 1888
26 Dark's last name
27 What to choose in the theatre
28 What you have on for tonight
29 Ensign that's often up to the air
31 This place needs to be tidied up
32 What followed M?
33 Mother's little sunbeam
36 Special showing in the lingerie department
39 It's shocking to be so pink
41 Minor and others
42 Places for old love letters
45 Guppies' penthouse
46 Hopalong's usual pose
50 A lot is done for his sake
51 Herr's "alas!"
52 It's always going downhill
53 Appeared to balsam
57 'Er 'usband's a famous doctor
58 Holes in the family budget
60 Absent with leave
63 What I haven't seen you for
66 They often follow a thousand
67 Roc is in *Hamlet*
68 What little gals are made of
70 You whistle for this
72 Friend from Amiens
73 Fran's last name
74 One way to get help
76 Kind of back
77 Mamie, before Ike took command
79 The lady from E. Mobile
81 This is usually in full swing
82 Low sort of type
83 Two words following a bachelor
84 ____ and you can have it
85 It comes in quartz
88 Extended a helping hand
89 Anne R. is a French writer
91 Big Ben in Scotland
92 The U. S. in 1869
93 Big gain for a baby
95 A short message by wire
98 It comes between H and T

"Matchwit" is reprinted courtesy of "Sports Illustrated" from the February 28, 1955, issue. © 1955 Time Inc.

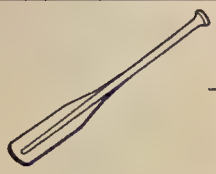
Rebus Charades ★★

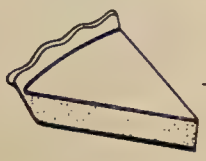
by Will Shortz

This puzzle requires a little deduction before the answers can add up. To solve, first identify the 10 pairs of pictures below labeled 1-10. The letter following each picture will appear within its name. Next, remove the indicated letter from each name, closing up any resulting gap, and read the remaining letters in each pair of names in order. The result will identify one of the pictures labeled with Roman numerals I-X at the bottom of the page. Example: The objects shown in # 1 are a PIG and a STOOL. Delete the G and O, read the remaining letters in order, and you'll spell PISTOL, which appears as picture VII. If you get stuck, working backward from the pictures at the bottom of the page may help.

Answer Drawer, page 88

1. – G – O

2.  – A – L

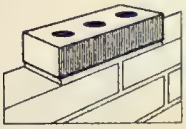
3.  – S – O

4. – I – E

5. – R – A

6. – K – P

7. – A – R

8. – E  – B

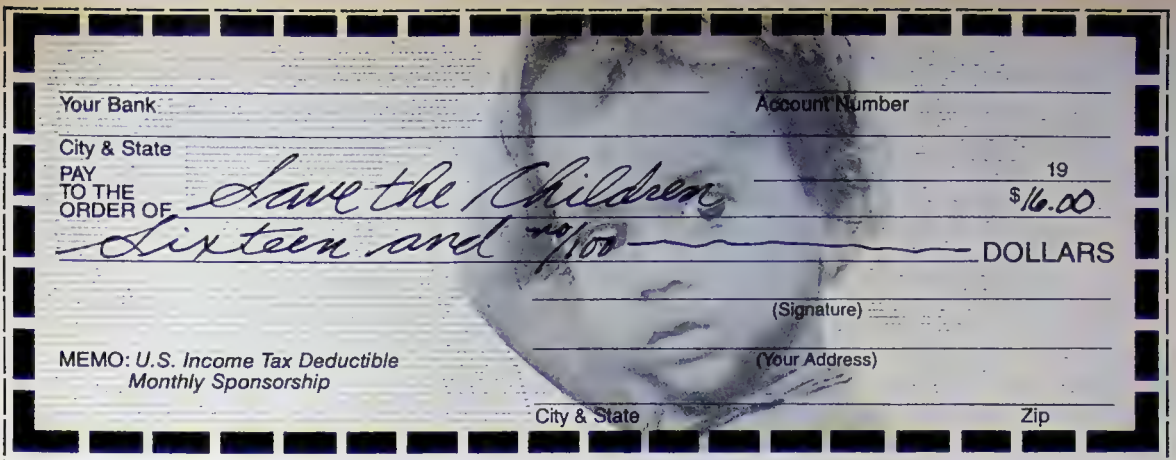
9. – A – K

10. – A – L

I. _____ II. _____ III. _____ IV. _____ V. _____

VI. _____ VII. PISTOL VIII. _____ IX. _____ X. _____

ILLUSTRATIONS BY ENNIO POLERICH



Fill out this check (or use your own) and save the children

For only 52¢ a day (just $16 a month) you can befriend a needy child through Save the Children. Your money, combined with that of other sponsors, can breathe new life into an impoverished village...help hardworking people in their fight for dignity...turn despair into hope for a child who has known only disaster. 52¢ may not buy much where you live. But for the poorest of the poor, where the need is so desperate, it can work miracles.

For your first monthly sponsorship contribution, just fill out and sign the check at the top of this page (yes, as long as you indicate your bank name and account number, it is negotiable). Mail the entire page to Save the Children. Of course, you may use your personal check if you prefer.

TELL US HOW YOU WANT TO HELP BY ANSWERING THESE QUESTIONS.

Your name_____ (please print)

Address _____

City_____ State_____ Zip _____

1 What kind of child would you like to help?
☐ Boy ☐ Girl ☐ Either

2 What geographical area are you interested in?
Urgent need exists in all the areas listed below. Select an area, or let us assign a child where the need is greatest.

☐ **Where the need is greatest**

- ☐ Africa
- ☐ American Indian
- ☐ Appalachia
- ☐ Bangladesh
- ☐ Chicano (U.S.)
- ☐ Colombia
- ☐ Dominican Republic
- ☐ Honduras
- ☐ Indonesia
- ☐ Inner Cities (U.S.)
- ☐ Israel
- ☐ Lebanon
- ☐ Mediterranean
- ☐ Mexico
- ☐ Nepal
- ☐ Southern States (U.S.)
- ☐ Sri Lanka (Ceylon)

3 Would you like a picture of your sponsored child?
Shortly after we select a child for you, we can send you a photograph and brief personal history, if you desire.
☐ Yes ☐ No

4 Would you like to correspond with your sponsored child?
If desired, correspondence can help build a meaningful one-to-one relationship. Translations, where necessary, are supplied by Save the Children.
☐ Yes ☐ No

5 Would you like information about the child's community?
When you become a sponsor, your funds are used to help children in the most effective way possible—by helping the entire community with projects and services. For health care, education, food production, and nutrition. Several times a year you can receive detailed reports on these community activities which provide permanent improvements to the child's environment. Would you like to receive such information?
☐ Yes ☐ No

6 Do you wish verification of Save the Children credentials?
Save the Children is indeed proud of the handling of its funds. Based on last year's audit, an exceptionally large percentage (83.3%) of each dollar spent was used for program services and direct aid to children and their communities. Due to volunteered labor and materials, your donation provides your sponsored child with benefits worth many times your total gift. Would you like to receive an informative Annual Report (including a summary financial statement)?
☐ Yes ☐ No
(A complete audit statement is available upon request.)

7 Would you rather make a contribution than become a sponsor at this time?
☐ Yes, enclosed is my contribution of $_____.
☐ Check here for general information about our unique programs for aiding impoverished children.

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Mail to:

Save the Children®

50 Wilton Road, Westport, Connecticut 06880
Attn: David L. Guyer, President

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GA 9/2

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EXTRASENSORY DECEPTION

THE STRANGE STORY OF THE PROFESSOR AND THE PSYCHIC

BY THE AMAZING RANDI

Quentin Shillip was an assistant professor in the physics department of Luckbridge University. At 28, he was an exceptionally gifted physicist, a man of great, though diffident, charm, tall, taut, and spare of body. His character, however, belied all this apparent efficiency. Shillip wore mismatched socks, drove his car ineptly, and often was late for his classes because he had gone to the wrong room. When a package said OPEN THIS END, he could be counted on to struggle with the other

But he was a talented teacher, so none of this bothered his boss, Dr. Gottinhimmel, the department chairman. What did bother him was Shillip's readiness—not to say eagerness—to believe in extrasensory perception and clairvoyance. This unscientific attitude cast a shadow over Shillip's chances for promotion.

One day, fate threw Professor Shillip into the path of The Great Crispin, who described himself as "the world's foremost mentalist." Crispin was scheduled to display his powers at a college fund-raiser in the auditorium at Luckbridge, and Shillip, eager for the chance to observe the psychic at close range, volunteered as faculty host for the day.

That is, if the great man ever showed up

Shillip, accompanied by his assistant, Judy, who was overseeing the details of the evening's entertainment, had driven like a madman to the airport, arriving, typically, a little late. Leaving Judy to park the car, he rushed into the terminal But although Crispin's flight had arrived 20 minutes earlier, the psychic was nowhere to be seen. Then Shillip felt a tap on his shoulder. It was Crispin. "Sorry I'm late. A little trouble with the luggage." Shillip found it odd that Crispin recognized him, since they had never met.

The oddness continued. As they were walking to the parking lot, Crispin stopped in his tracks with a mysterious, faraway look in his eyes. "Is your pretty red-haired assistant waiting for us in the car?" he asked. Dumbfounded, Shillip could only nod his head. How could Crispin know that Judy was there or what she looked like?

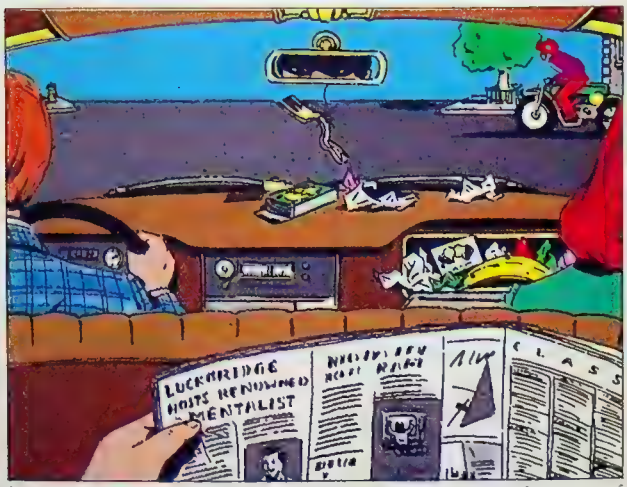
Driving them downtown, Shillip began to explain that Crispin's hotel reservation had been changed at the last minute and he was now going to stay at . . .

"No, don't tell me!" Crispin broke in. "I get the name . . . Dorset . . . no, wait . . . it's Dorchester."

Shillip nearly veered off the highway. Regaining his composure, he smiled. "Gottinhimmel will never believe this Judy, you're my witness."

What an airhead, she thought. Judy, who looked as though she could be bruised by brushing against a magnolia blossom, was as tough-minded and practical as Shillip was wide-eyed And she wasn't overjoyed at having to spend her day off babysitting Crispin, whom she had seen in Las Vegas and considered a sideshow swami. Her response to his apparent clairvoyance was characteristically caustic: "That's amazing, Crispin And can you tell, oh great mystic, what *I'm* thinking?"

Crispin answered testily. "Reading minds may not be hard-



ILLUSTRATED BY BOB ALLEN

hat work, young lady, but it isn't easy. However, the tone of your voice tells me what you're thinking, so I needn't bother with a mind probe." For the rest of the short trip he read the local newspaper he found on the back seat.

At the Dorchester, while Crispin was signing in, the desk clerk tried to hand him an envelope containing a message. Crispin waved it away. "It's from my mother in Kansas City. She says my brother's wedding has been postponed." He didn't even look up from the register.

Shillip grabbed the envelope from the clerk and tore it open. Crispin had been exactly right. The professor's eyes shone. "What extraordinary precognitive abilities!" he said Under her breath, Judy muttered, "Then why didn't his mother save money by sending Dr. Marvelous the message telephathically?"

Shillip was too buoyed up to argue. He grinned at Judy and told her to keep the mentalist company for an hour while he drove home to change clothes and fetch Crispin's pay for his night's work—a check for $7,500. But when he had gone, the two avoided each other, Crispin at the bar recharging his psychic batteries with a few bottles of beer, Judy in the lobby arcade letting off steam playing Pac-Man.

When Shillip returned, on time and wearing matching socks and an anticipatory smile, he found he had forgotten

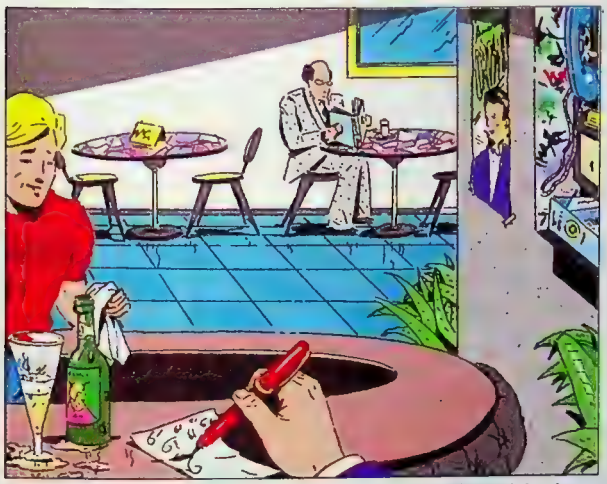
Crispin's check. "Not to worry," Crispin said. "We'll pick it up on the way to the campus." Shillip agreed—but how had Crispin known that his house *was* on the way to the campus?

The drive to Shillip's house continued the magical mystery tour. At one point, Crispin correctly guessed that they were five miles from the house. Then, when they were pulling into the driveway, Crispin knew that the phone would be ringing. Shillip went in to get the check, and Judy went along to check the phone, afraid that her bedazzled boss would hear it ringing even if it wasn't But it was. Judy sank into a chair, looking bemused. "You know," she said. "I could use a drink. It's really too early to go to the auditorium anyway. Why don't you invite the swami in for a quick brew—witch's of course."

When Crispin entered the living room he went straight to a photograph on a table. "This must be your fiancee, Marilyn," he said. "I hope you'll have a lovely wedding next month." While Shillip's mouth was still wide open, Crispin said, "I think I'll not have a drink. I've had more than enough beer already But I'd like to use your bathroom."

"Then you *are* human," Judy said. The professor gave her a reproving look and showed Crispin through his bedroom to the bathroom

On the way to the auditorium the mentalist advised Shillip against buying a motorcycle—something Shillip had been planning secretly for months. Although Judy was delighted



that the professor wouldn't be threatening life and limb on campus, she was still frustrated by her inability to prove Crispin a fake. "If you're so smart," she exploded, "why don't you make a million dollars on the stock market?"

Unconsciously patting his wallet, which contained the check for the evening's performance, Crispin replied loftily, "I don't use my God-given powers for personal gain."

That night The Great Crispin lived up to his billing with an astounding psychic display, and he brought down the house with a climactic mind-reading feat. After a volunteer from the audience blindfolded him, Crispin asked her to roll three dice until three different numbers came up. She finally threw 6 5 3 and, as instructed, wrote the numbers on a blackboard center stage. Following Crispin's orders, she reversed the number and subtracted the smaller from the larger. The board read:

$$\begin{array}{r} 653 \\ -356 \\ \hline 297 \end{array}$$

Turning to page 297 of the local telephone directory (which had been brought on stage after Crispin was blindfolded), she concentrated on the first phone number listed, which Crispin had announced he would guess by reading her mind. The psychic broke into a sweat as he strained to get the first digit. His guess was wrong. "My dear," he said kindly, "the image is

fuzzy. Let me hold your hand." Again he strained, and finally offered another number—the right one. Starting slowly, then gathering speed, he repeated the next six digits without a miss This was his final trick, and the crowd left happily mystified, none more mystified or happier than Shillip.

On the drive back to Crispin's hotel, Shillip's admiration was unbounded. (Judy had declined the honor of accompanying them.) As Crispin got out at the Dorchester, he said, "By the way, Shillip, you know that special class you're teaching tomorrow? For a change, you'll be early."

When Shillip woke up the next morning he saw that the great man had missed his final prognostication. He was actually running late. He threw on his clothes, skipped breakfast, and careened insanely off to campus. As the car screeched into the parking lot, Shillip glanced at the clock on the auditorium tower and saw that he was, in fact, more than a half-hour early. His eyes still glued to the clock, he ran right into the taillight of Dr. Gottinhimmel's Mercedes. With a sinking feeling, Shillip knew he could kiss his promotion goodbye. If only the mentalist had warned him.

Well, Crispin can't predict everything.

IS IT LOGIC OR ESP?

The four illustrations on these pages show—through Crispin's eyes—everything that was germane to his total performance. Crispin had no confederates. He had never been to Luckbridge and had never seen Shillip or Judy or a photograph of either. The Dorchester was one of 20 hotels in the city, and there was no Dorset Hotel. Neither Shillip nor Judy had let slip any information about themselves. So how did Crispin know . . .

1. *who Shillip was when he met him at the airport?*
2. *that Judy was a redhead and was waiting in the car?*
3. *that he'd be staying at the Dorchester?*
4. *the contents of his mother's message?*
5. *that Shillip's house was on the way to the campus?*
6. *the distance to Shillip's house?*
7. *that Shillip's phone would be ringing?*
8. *that Shillip was engaged to a girl named Marilyn?*
9. *that Shillip was planning to buy a motorcycle?*
10. *the correct telephone number, in his act's finale?*
11. *that Shillip would get to school early the next day?*

Are there logical explanations, or was it ESP?

Answer Drawer, page 92

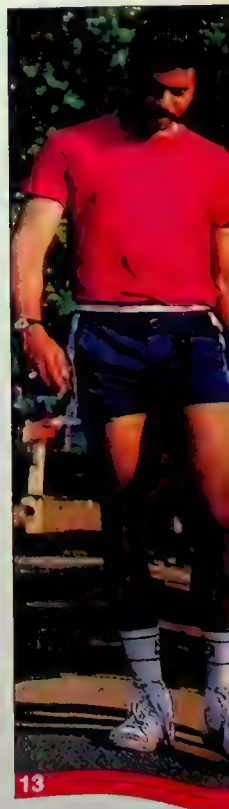
The Amazing Randi is internationally known as a magician, escape artist, and investigator of the paranormal. He is currently working on a series about psychic phenomena for a major TV network.

9 COUPLES

Photographs by Hugues Colson

They say opposites attract,
but it also seems
that many couples tend to think,
dress, and even look alike.
To test these theories,
we've photographed nine couples
strolling through
the parks of New York,
then cut the photos in half and
heartlessly separated
the men and women. Based on
visual clues in the pictures—and
your intuition—can you reunite
each couple?

Answer Drawer, page 87

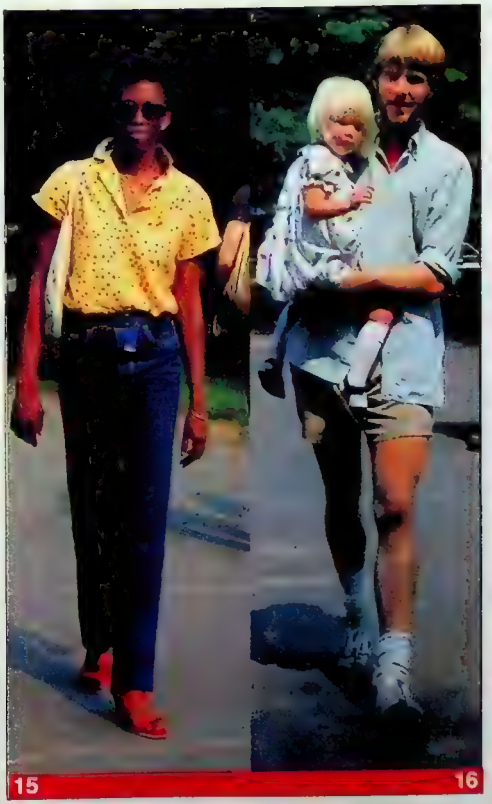


4

5 6

7 8

14


15 16

17 18

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JEEN VICTORIA
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KING EDWARD
KING GEORGE V
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CALL OUR BLUFF

Rock Lists

FACTS YOU DIDN'T KNOW YOU DIDN'T KNOW

★★★

Jeremy Piltdown, our resident bamboozler, had lunch recently with rock 'n' roll writer Dave Marsh, and the two got into an argument over which of them knew more about rock. To settle the matter, Marsh challenged Piltdown to find the bogus listings in this mixed bag of authentic entries from *The Book of Rock Lists*, which Marsh wrote with Kevin Stein. Piltdown was put down, scoring less than 50 percent. Can you find the entries that should *not* appear in each of the following lists?

Answer Drawer, page 86

Is There Life Before Rock?

Former Occupations of the Stars

1. Chuck Berry, hairdresser
2. David Bowie, commercial artist for advertising agency
3. Carly Simon, proofreader
4. Ian Anderson, flautist with London Symphony Orchestra
5. Joe Cocker, plumber
6. Elvis Costello, computer programmer
7. Roger Daltry, sheet metal worker
8. Jimi Hendrix, pizza baker
9. Deborah Harry, Playboy Club bunny
10. Alice Cooper, cosmetics company owner

Quotations from Chairman Elvis

1. "I get lonesome sometimes. I get lonesome right in the middle of a crowd."
2. "A diet? Yeah, I'm on a diet. Doc says 'Stay away from stupid reporters and society luncheons.' "
3. "If I had another life, I'd want to come back as my manager. Damn, he's got it good."
4. "I was thinking about a Presley used-car lot."
5. "I know practically every religious song that's ever been written."
6. "I wanted to be a singer because I didn't want to sweat."
7. "Would you like to hear my Bing Crosby imitation? No? I can do Sinatra too, when I want to."
8. "I don't know a thing about music. In my line, you don't have to."

Performers Who Made the Cover of Time Magazine

1. The Band, 1970
2. James Taylor, 1971
3. The Rolling Stones, 1972
4. Bob Dylan, 1973
5. Joni Mitchell, 1974
6. Bruce Springsteen, 1975
7. Stevie Wonder, 1976
8. Linda Ronstadt, 1977
9. Sid Vicious, 1978
10. The Who, 1979

Rockers with Stars on Hollywood Boulevard

1. The Beach Boys
2. Janis Joplin
3. Linda Ronstadt
4. The Bee Gees
5. Mick Jagger
6. Crosby, Stills, Nash, and Young
7. Elton John
8. David Bowie
9. Peter Frampton
10. Fleetwood Mac

Lost in the Crowd

Faces on the Cover of Sgt. Pepper's Lonely Hearts Club Band

1. Dr. Stanley Livingstone
2. Marlon Brando
3. Humphrey Bogart
4. Marlene Dietrich
5. Lenny Bruce
6. Lewis Carroll
7. Richard Nixon
8. Tony Curtis
9. Albert Einstein
10. Moses
11. Sir Lawrence Olivier
12. Oliver Hardy
13. Sonny Liston
14. Twiggy
15. Karl Marx
16. Jackie Kennedy
17. Edgar Allan Poe
18. Mona Lisa
19. H. G. Wells
20. Mae West

Do You Hear What I Hear?

Background Backups You May Have Missed

1. "Blue Moon," Elvis Presley. Soda can be heard coming out of the studio vending machine.
2. "Ohio," Crosby, Stills, Nash, and Young: Graham Nash can be heard whispering "one more kick, Dick," at the very end of the song.
3. "Third Stone From The Sun," The Jimi Hendrix Experience. Played at 78 r.p.m., an entire dialogue between "Starship" and "Star Command" will reveal itself.
4. "Space Cowboy," The Steve Miller Band begins with a recording of a Titan missile launch and the words "Giddy up," inaudible at less than half volume.
5. "Trucking," The Grateful Dead: The studio toilet can be heard flushing twice.
6. "Happy Jack," The Who: Pete Townshend shouts "I saw ya" at Keith Moon, who had been hiding behind the recording console and making the group laugh during the take.
7. "Ballad of John and Yoko," The Beatles: John can be heard calling hello to his friend Peter Brown.

Origin of the Species

How Bands Got Their Names

1. The Beatles: in honor of The Crickets
2. The Doors: from quotations of Aldous Huxley and William Blake on "the doors of perception."
3. Traffic: from Piccadilly Circus, where the band once had a rehearsal flat.
4. Jethro Tull, after the 18th-century inventor of the seed drill.
5. Three Dog Night: from an Australian aboriginal term. Aborigines bed down with their dogs for warmth, a three-dog night is cold indeed.
6. Buffalo Springfield: from a Springfield rifle, preferred by the Old West's buffalo hunters.
7. Rufus: from the *Mechanix Illustrated* column "Ask Rufus."
8. Led Zeppelin: from a comment by John Entwhistle of The Who, that Jimmy Page's new group would go over like the world's largest lead balloon—a lead Zeppelin.
9. Quicksilver Messenger Service: from the fact that the original band members were born under the sign of Virgo, which is ruled by the planet Mercury, mercury is another name for quicksilver.

ILLUSTRATION BY HARRY SIMON

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GAMES & BOOKS

Edited by R. Wayne Schmittberger

Trivial Pursuit (available from Horn Abbot Ltd., P.O. Box 560, Niagara-on-the-Lake, Ontario, Canada L0S 1J0; $29.95 plus $2.80 postage and handling)

Who was the youngest Beatle? What's the official animal of Canada? Which is heavier, a baseball or a softball? If these questions whet your appetite, Trivial Pursuit is your game.

The mechanics are simple: Each player in turn moves his token around the board according to the roll of a die, then answers one of 6,000 questions, determined by which color space he lands on. The six colors match the question categories—geography, entertainment, history, art and literature, science and nature, and sports and leisure. (A "Silver Screen" edition, with 6,000 movie questions, is due out in September.) A player's turn continues as long as his answers are correct. A right answer on a "category headquarters" space earns one of the six colored wedges needed to attempt a game-winning question in a category of his opponents' choice.

With good players (two to 24 can play), the wait between turns can be uncomfortably long, especially because the many "roll again" spaces help players avoid unwanted categories. But the questions themselves are the core of the game, and they are excellent in quantity, scope, and level of difficulty—on a par with the old *Jeopardy!* shows and a refreshing step up from most quiz games.

The answers to those questions, by the way: George Harrison, the beaver, and a baseball. —M.S.

Vis-à-Vis (Selchow & Righter, around $12)

This fast-moving, original game, known in England as Entropy, is an abstract duel of two opposing aims. It was created by Dr. Eric Solomon, a prolific British inventor whose other games include Black Box (*Games*, November/December 1978).

The attractive equipment consists of a grab bag holding 25 discs (five each of five different colors) and a simple 5 × 5 grid. One player—the "defender"—draws discs, unseen, from the bag one at a time and places them on empty grid spaces. After each placement, the other player—the "scorer"—may move one disc (not necessarily the one just played) along a horizontal or vertical line, but not past another disc. When the board is filled, the scorer receives points for every symmetrical pattern of adjacent discs on a horizontal or vertical line. Two adjacent discs of the same color score 2 points; a three-disc pattern, such as red-green-red, scores 3 points; and so on. But three discs of the same color score 3 points *plus* 2 points each for the two-disc patterns within, for a total of 7 points. Five of the same color scores a whopping 30 points. In the second round the roles of the players are reversed; the higher scorer wins.

While the luck of the draw does affect the outcome, there are ample opportunities for skillful planning. The scorer should set up as many potential scoring patterns as possible and the defender should try to move key discs out of the action. In the endgame, consideration of which colors remain in the bag can affect both players' choice of play. —S.S.

Ken Uston's Guide to Buying and Beating the Home Video Games by Ken Uston (Signet, 1982, 675 pages, $3.95 paperback)

Already, there are five major home video game systems and more than 200 cartridges to play on them, and many more are on the way. Comparisons are in order, and this new book by a world-renowned blackjack player, who is also the author of *Mastering Pac-Man* and *Score! Beating the Top 16 Video Games*, makes that task easier. Of the four books available on the subject at press time, this is by far the best.

Beginning with thoughtful evaluations of the Atari VCS, Intellivision, Astrocade, and Odyssey² systems (as well as the little-distributed Fairchild/Zircon), Uston compares their durability, usability, versatility, and future potential. He then moves on to the play and basic strategies of more than 180 game cartridges. For the cartridges we are most familiar with, Uston's evaluations and ours are virtually identical.

The game descriptions and strategy tips are necessarily brief, except for the 13 pages devoted to Atari's Pac-Man. As is inevitable in this fast-growing field, the book was a little out-of-date as soon as it was published. The new Colecovision and Atari 5200 systems, for example, are mentioned only briefly. But Uston's information is excellent, and the book is strongly recommended to anyone shopping for a home video game system or cartridges. —J.A.

PHOTOGRAPHS BY GARY FELLEMAN

The Great Wall Street Fortune Hunt

(N.A.P.C.E.C., for use with Odyssey² Home Video Game System; around $49.95)

This is the only stock market game with a moving tickertape and newswire to simulate the atmosphere of the New York Stock Exchange. The result: an unusual video game that is both fun and (gulp) educational.

Like Quest for the Rings and Conquest of the World, the first two games in the Odyssey² Master Strategy Series, this game uses a gameboard as well as a TV screen. The colorful graphs on the board depict how the values of 30 stocks react to news relating to the gross national product, interest rates, and politics. The prices of the stocks continuously travel across the top of the screen, while one of 20 different news flashes periodically moves across the middle, each affecting stock prices differently.

The object is to invest $100,000 as profitably as possible by trying to anticipate price fluctuations quickly and accurately. In the two-player game, the player with the greater net worth after 20 five-minute "quarters" of play wins.

Most of the corporations on the board are real, although their behavior in the game is only an approximation and may at times be unrealistic. Still, one learns how the market works. When you've mastered the basic game, you can add such complications as treasury bills, buying on margin, and stock options. Beyond that, there's the real thing . . . —P.M.W

Electronic Stratego (Milton Bradley, around $70)

The introduction of electronics into the classic game of Stratego has been accompanied by rule changes that alter the game significantly. And in this case the newer, more expensive product is better than the original.

Each player controls 24 pieces (Generals, Majors, Scouts, Miners, etc.), which face their owners to keep their identities secret. All pieces move one space at a time, except that Flags are immobile and Scouts move like chess queens. The object is to capture the opponent's Flag.

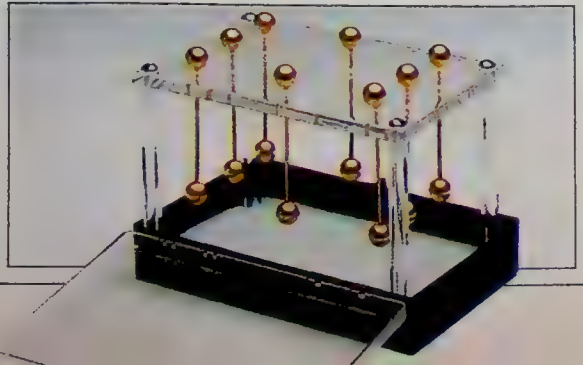
Before the battle starts, each player programs the game computer with the secret locations of six mines, which "explode" with appropriate sound effects when landed on by an opposing piece (except Miners, which defuse the bombs). A player's own pieces may safely occupy squares he has mined, something they can't do in ordinary Stratego.

When one piece attacks another by landing on it, the computer awards victory to the higher ranking piece, but without revealing the identity of either. A player may use his turn to "probe" the enemy position and discover the general class of an opposing piece. This rule cures a slight flaw in the original game, in which both players are better off defending than attacking. Probes also help a player to locate the Flag late in the game and attack it from a distance with Scouts, some of which should be preserved for this purpose.

The game is a satisfying blend of planning, tactics, and memory skills. Playing time is around 45 minutes. —R.W.S.

ETCETERA

Eternal Suspension (Ibex Int., 875 N. Michigan Ave., Suite 1557, Chicago, IL 60611; $19.95 includes postage) would make good training for the bomb squad. The idea is to suspend metal balls and rods from holes in a table by means of residual magnetism. The gold-plated set shown is of medium difficulty. Easy and difficult versions (not gold) are $14.95 each.



Gridlock (Gabriel, $3) is the best puzzle so far in the Hi-Q line. The board consists of raised squares, crosses, and circles in seven rows of four columns. The 14 rectangular or L-shaped pieces have squares, crosses, and circles cut from them. The object: to cover the board using different combinations of 12 pieces. Fifty puzzles are provided; the solutions are not!

Tangoes (Rex Games, 447 New Grove St., Wilkes-Barre, PA 18702; $7.95 includes postage) is a one- or two-player race to solve more than 50 tangram puzzles, each on a card with the answer on the back. Two sets of the seven tangram pieces are provided, allowing you to experiment with larger pictures. —P.M.W.

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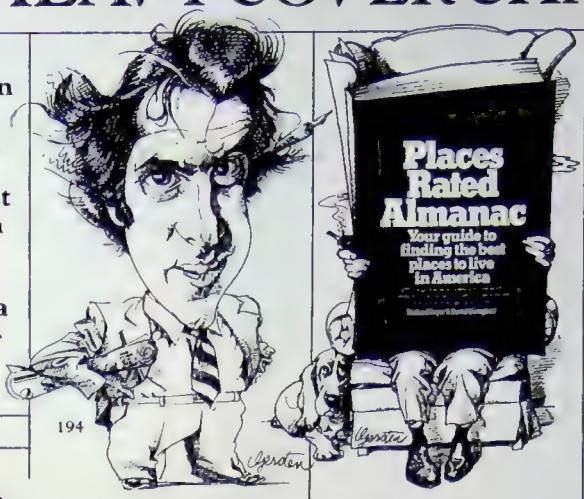

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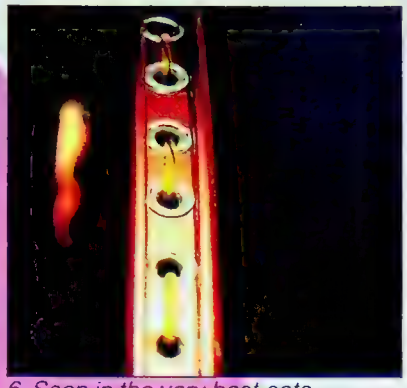
What are these objects?

Answer Drawer, page 85

1. In for KP

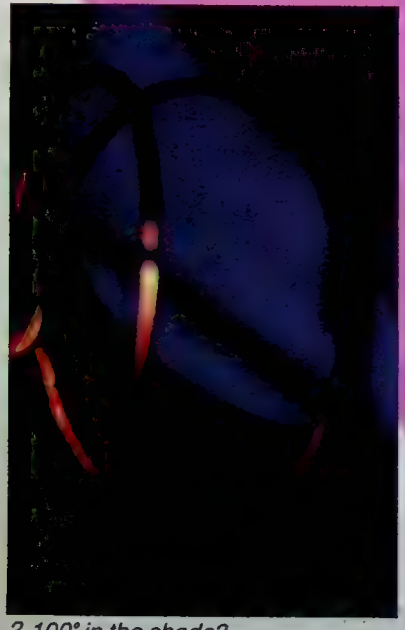
3. To use in a pinch



6. Seen in the very best sets

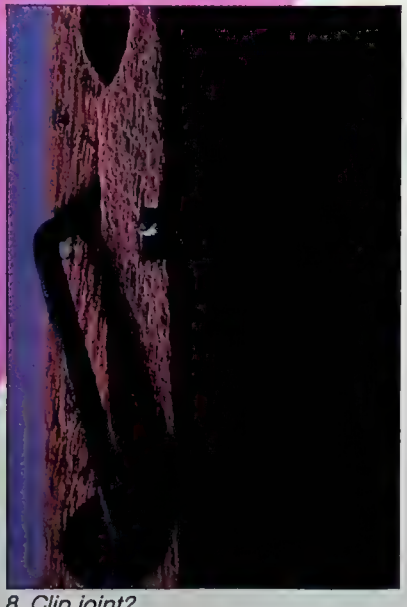
4. Papa says no?

7. Here's looking at you, kid.



2. 100° in the shade?

5. There's no match for this



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BABEL

For Three, Four, or Five Players

The Deal Using one standard deck of 52 cards, deal 10 cards face down to each player; the remainder of the pack is placed face down as the stock pile. A player may never look at another player's hand or show his own.

The object of the game is to get combinations of cards that score the most points. Scoring (*see box, below*) is based mainly on poker hands. Babel and poker are otherwise unrelated, however, and no knowledge of poker is necessary.

The Play Players try to get the cards they want by bargaining and trading with one another. The bargaining begins after the deal, as soon as all players have had a chance to study their hands and arrange them as desired. A player may negotiate with one other player or with several at the same time. Often players bid competitively for the same card, and can even offer two cards for one. Toward the end of the game, when one player is clearly in the lead, the others can refuse to trade with him; but he can retaliate by making offers the others can't afford to refuse.

If bargaining bogs down and no one has cards they're willing to trade, players may agree to draw from the stock pile. This must be a unanimous decision. When each player has taken one card from the top of the pile, bargaining resumes. There is no discarding—play continues with the larger hands.

Going Out Play continues until one player "goes out," when all action must stop immediately. A player may go out when his hand contains any *two* of the following combinations: flush, full house, four of a kind, straight flush, or royal flush; or any *one* of the following combinations: double straight, double flush, or double straight flush. Each card may be used in only one combination. No bonus is earned for going out.

Scoring See the table below. Since a hand may often be scored in more than one way, each player must figure out his best possible score, *using no more than 10 cards*, before recording it.

Running totals are kept if more than one hand is played. An arbitrary figure should be chosen in advance (200 makes an evening's play); the first to reach that figure is the winner. If two players reach it in the same deal, the one with the higher overall score wins.

ILLUSTRATION BY JACQUELINE CHWAST

SUPER-BABEL

For Six or More Players

This form of the game is especially lively with a party of 15 or more. If enough decks of cards are available, there's no limit to the number of players. Use about one deck for every three players: two decks for six or seven, three for eight to 10, etc. Ask players to bring their own to insure that there are enough. The rules are basically the same as in Babel, but there are some important differences.

The Deal One person volunteers to be the dealer and scorekeeper and does not play. The dealer shuffles all the decks together and deals 10 cards to each player. The remainder of the cards form the stock pile.

The Play In Super-Babel, two cards may not be traded for one, because a player must turn in exactly 10 cards

The Hands and Their Scoring

Combination	Cards	Points	Going Out
Pair	2 of same number	1*	
3 of a kind	3 of same number	3*	
Straight	5 in sequence	5†	any 2 or
Flush	5 of same suit	7	
Full house	pair plus 3 of a kind	10	
4 of a kind	4 of same number	15	
Straight flush	5 of same suit in sequence	20	
Royal flush	10, J, Q, K, ace of same suit	21	
Double straight	10 in sequence	30	any 1
Double flush	10 of same suit	60	
Double straight flush	10 of same suit in sequence	80	

*Scored in Babel but not in Super-Babel. †A Straight may be used for going out only in Super-Babel.

when going out. There is no drawing in Super-Babel, since the larger number of players guarantees virtually unlimited trading possibilities, and because when a player goes out he gets a new hand from the stock pile.

Going Out A player may go out when his hand contains any *two* of the following: straight (not used in the three-to-five player version), flush, full house, four of a kind, straight flush, or royal flush; or any *one* of the following: double straight, double flush, or double straight flush.

Going out does not stop the action for the other players. A player who goes out takes his hand to the scorekeeper, who records the score of the hand, puts the player's cards in the discard pile, and deals him 10 new cards. The player then rejoins the game.

A player must turn in 10 cards when going out, even if not all 10 are used for going out or scoring. For instance, a player may go out with four of a kind and a straight, using only nine cards, or with two four-of-a-kind combinations, using only eight; but he must still turn in 10 cards.

When the stock pile is depleted, the dealer shuffles the cards in the discard pile to make a new stock pile.

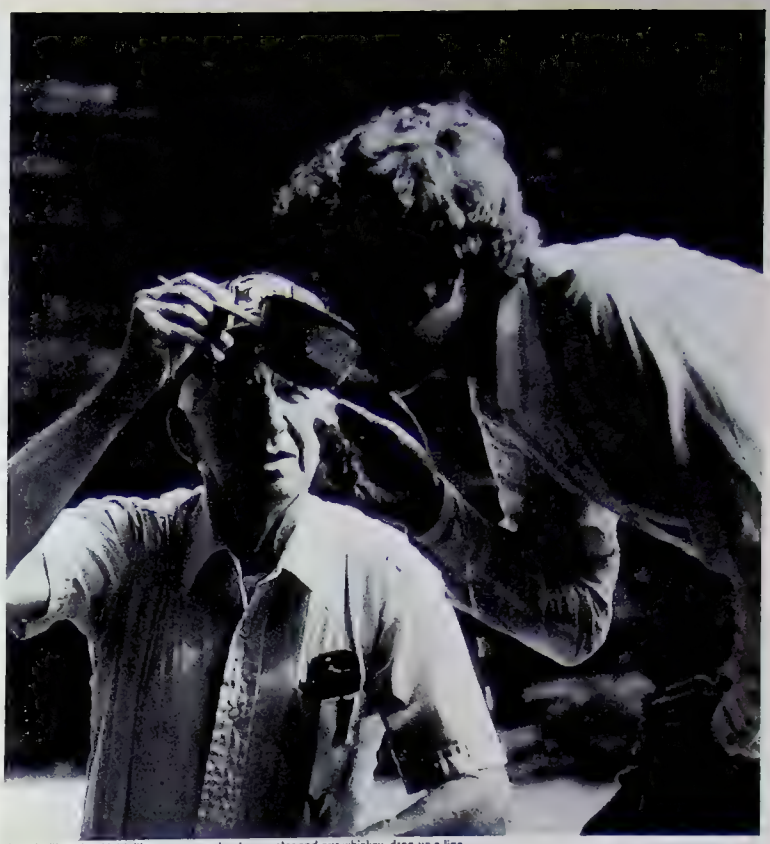
Scoring Pairs and three-of-a-kind combinations are not scored in Super-Babel. A player's hand is not scored until he goes out.

Since more than one deck is used, a player might be dealt two or more identical cards. No combination may include identical cards, but a hand is valid if such cards are used in different combinations.

The scorekeeper keeps a tally of each player's score. When any player reaches the predetermined winning total, the game is over.

Preparation All the cards should be shuffled and 10-card packets prepared before play begins. The dealer/scorekeeper should be stationed at a table in a corner; players may be moving—or running—from room to room, and the dealer's table should be well out of the way. If there are more than 15 players, two scorekeepers are advisable. The scorekeeper should have a sheet of paper with ruled columns for each player's score. Prepare copies of the table at left for players to refer to during the game, or stick up a poster where it can be easily seen.

Adapted from "Abbott's New Card Games" by Robert Abbott. A limited number of copies are available from Robert Abbott, Box 1175 G.P.O., New York, NY 10116 for $1 plus $1.50 postage.



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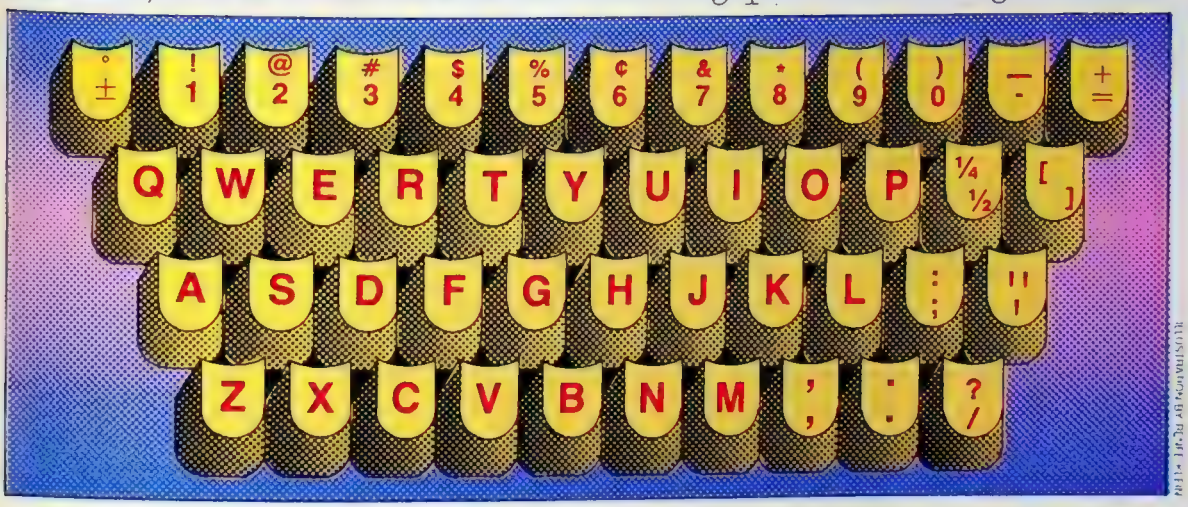
SIGN US TROUBLE

Create a sign that inventively combines the symbols, letters, and numbers on this typewriter keyboard.



It occurred to us recently that many of the letters, numbers, and symbols on the typewriter keyboard aren't being used to their full advantage. By creatively combining these characters, we came up with a "language" that's much more intriguing—and concise—than ordinary English. Where better to use this new "language" than on signs, which naturally require brevity?

Consider, for example, this sign explaining a newspaper delivery policy:

```
No pa% un- b0 + paid 4 in +vance
```

No papers sent unless bought [b aught] and paid for in advance

And this sign might improve business at a laundromat.

```
Laundry goo in h& not on floor
Leave it @ once and x it through door
We take ć/o bleach 4 U
So clothes ¢ back all look br+ new
```

Laundry goes in hampers and [h ampersand] not on floor
Leave it at once and exit through door
We take care of bleach for you
So clothes sent back all look brand new

And here's a health club's warning to overeager exercisers:

```
Bware when U uu w88
All require = care
Do not
Do it
```

Beware when you use weights
All require equal care
Do not overdo it

You can see from these examples that symbols may be interpreted in different ways. The plus sign (+), for instance, can mean "and" or "add." Also, while certain letters can be used to stand for complete words (R for are, B for be, etc.), we like signs that include more original "tricks." Remember that all punctuation marks become part of the "sign language," so the use of commas, periods, etc., *as punctuation,* is forbidden.

The object of this contest, as you may have guessed, is to come up with some signs of your own. Using combinations of only those letters, numbers, and/or symbols that appear on the customized keyboard on this page, create a sign that could be used in a real setting. The winning entry will be the one that, in the opinion of our judges, is the most ingenious, inventive, and entertaining. Messages that are humorous in themselves will earn extra credit, but the most important requirement of a good entry is a clever use of typewriter keys, especially symbols. As usual, the judges' decision is final.

How to Enter Type or neatly print your sign and its translation, with your name and address, on a sheet of paper. (If your typewriter doesn't have one of the symbols shown on this page, you may of course write the symbol out.) There is no word limit, but remember that the most effective signs are usually concise. You may send as many entries as you wish, but each one must appear on a separate piece of paper. Send your signs to: **Sign Us Trouble, Games Magazine, 515 Madison Avenue, New York, NY 10022. Entries must be received by October 4, 1982.** —G.R.

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CONTEST RESULTS

Faced with the challenge (May/June) of creating commemorative stamps honoring any unusual, amusing, or incredible-but-true aspect of American life or history, more than 700 readers refused to be licked. Many saluted the quarter-gobbling Pac-Man; some bemoaned ever-rising postal rates; still others trumpeted *Games*'s going monthly.

The entry we thought best captured the idiosyncratic American spirit saluted one of our more frivolous artifacts—striped toothpaste. The winner, P. J. Tanaka of Gardena, California, gets a framed photograph of this grand prize-winning effort. Runners-up, whose stamps also appear here, will receive *Games* T-shirts. (All stamps were redrawn for publication.)

The largest crossword tournament ever held in the U.S. began with 7,700 contestants sending solutions to the Qualifying Puzzle (March/April) for *Games*'s First U.S. Open Crossword Puzzle Championship. Among nonparticipants, who chose not to compete in the tiebreaker round leading to the finals in August, the winner by random draw is Leo McConnell of Hudson, Massachusetts, who will receive $500 for his perfect entry.

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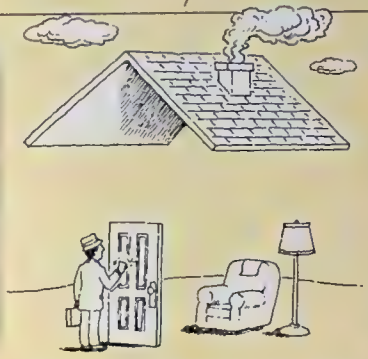
Edited by Lisa Feder

FOR THE RECORD

From A to ZZZ

Try thinking of words whose meanings change markedly if you place one letter in front of them, like these: arrow, utter, ores, ember. Which letter could begin all four words? Move through the alphabet and you'll be snoring in no time. —H. Ferguson

Answer Drawer, page 90



NUMBER PLAY

Roll Call

The math professor was asked how many students he had. He replied, "If I had as many more as I now have, plus one half as many and one fourth as many as I now have, I would have 99." How many students were in his class?

—Henry Leabo

Answer Drawer, page 90

WORDPLAY

Y Not?

Using the initial letters provided, can you come up with a five-letter word for each in which the only vowel is Y? Example: C R Y P T

1. D	3. L	5. P
2. F	4. N	6. T

—Virgilia Becker

Answer Drawer, page 90

TEASER

Once in a Blue Moon

What occurs once in a second, once in a minute, and once in a month, but never in the course of a lifetime?

—Henry Leabo

Answer Drawer, page 90

LOOK

Star-Gazing

Can you complete each sequence by substituting a letter or number for each asterisk?

1. P R N * * *
2. . . . 12 13 * 2 3 . . .
3. . . . M N O * * * T U V . . .

—Ralph E. Luke

Answer Drawer, page 90

LIST DEPT.

Rack Talk

Scrabble mavens and novices alike have often faced a potential bingo in their rack of tiles and done their best to play it well. Dr. Albert Weissman, a Scrabble aficionado, recently compiled, with the aid of a computer, the 125 most frequently occurring bingo racks and the best ways to play them. Here are the top nine:

A E E I N R T	: retinae, trainee
A D E I N O R	: aneroid
A E I L N O R	: aileron, alienor
A E I L N O T	: elation, toenail
A E I N O R S	: erasion
A E I N O S T	: atonies
A D E I N R T	: detrain, trained
A E I I N R T	: inertia
A E I L N R T	: latrine, ratline, reliant, retinal, trenail

—from *Scrabble® Players® Newspaper*, June 1980. © 1980 by Selchow & Righter

HALL OF FAME

Take A Number

This list of digits may look arbitrary, but each relates to one of the folks named here. Can you connect each numeral with its name?

1. 105	7. 1500
2. 200	8. 2000
3. 55	9. 90
4. 505	10. 400
5. 1050	11. 550
6. 999	12. 1100

a. Marie Curie
b. Charles Darwin
c. Marilyn Monroe
d. Cornelius Vanderbilt
e. Christopher Columbus
f. Diego Velázquez
g. Meriwether Lewis
h. Moshe Dayan
i. Xavier Cugat
j. Louis Vuitton
k. Dorothy Lamour
l. Iris Murdoch —Paul Hellweg

Answer Drawer, page 90

NO KIDDING

Shelling It Out

Professor Witlock leaned back in his chair as his friend Marvin Bond explained his problem. Bond was a stockbroker whose best client, billionaire Thomas Grenville IV, roamed the world in his yacht and cabled instructions to Bond to buy this or sell that.

"He has an obsession with secrecy," Bond said. "My instructions come in codes, ciphers, anagrams. . . . So far, I've solved them all, but this one baffles me."

He handed the professor a slip of paper. It read: *33584 minus 25849; 618760 divided by 8; 355 times 2.*

"Does he own stock in Shell?" Witlock asked. "Yes, he does."

"Then it's simple. He wants you to sell it." How did Witlock know?

—Frank Magary

Answer Drawer, page 90

CROSS WORDS WITH WILL WENG EVERY WEEK.

Every month, The Crosswords Club sends to crosswords lovers everywhere, four puzzles, freshly edited by Mr. Will Weng, retired Crosswords Editor of *The New York Times.*

These puzzles are created exclusively for members of The Crosswords Club, and are of the size and caliber of the vintage Sunday puzzles edited by Mr. Weng. They are mailed to members every month. Each numbered puzzle contains the solution to the preceding Weng-Of-The-Week, and, for puzzlers' edification, a commentary by Mr. Weng. Annual membership is $19.75. For two puzzler households, an extra set of each month's puzzles can be included (to the same address) for an additional $5.00. Please add $1.25 towards handling charges.

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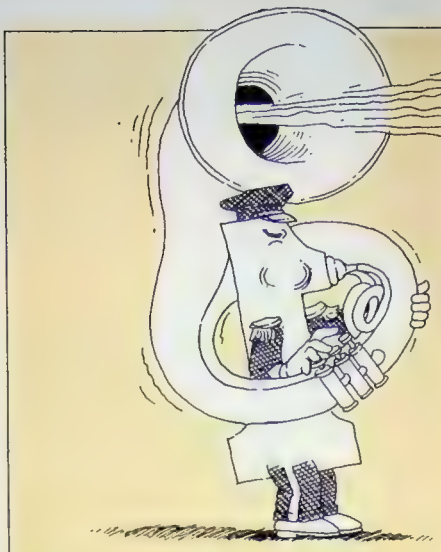


GROANERS

Poetry in the Kitchen

A poet, opening a new restaurant, offered a free dish or drink to every patron on opening day—provided that the poet could choose it. The first diner to arrive was Juan Carlos of Spain, followed by some folks from the American Legion. The poet chose a coffee ring for the king and chocolate eclairs for the legionnaires. Can you figure out what he'd offer each of these guests?

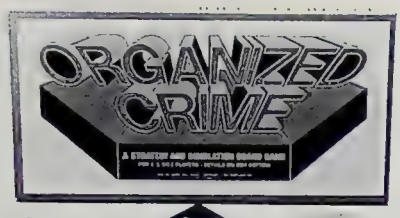
1. Queen Noor Al Hussein
2. Sandra O'Connor
3. Notre Dame's "Fighting Irish"
4. Prince Charles
5. a Turkish nobleman
6. six hobos
7. two Arab potentates and their harems
8. a few strikebreakers
9. a group of ex-convicts
10. a church official and some sisters from a local convent
11. a leader of Iran

a. mints
b. leeks and chives
c. lox
d. plums
e. granola
f. crabs
g. grenadine
h. liquor and buns
i. kasha
j. fudge
k. melons

—David Koenigsberg

Answer Drawer, page 90

BE THE BOSS!



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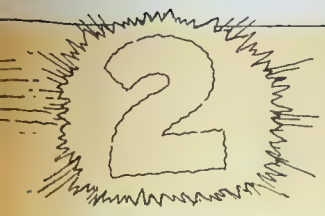

KIBITZERS

Chess: Principles and Pointers

The Noise/Tactics Equilibrium The level of noise irritation in a playing hall is inversely proportional to your tactical resources at the moment.

The General Rule of Weekend Tournament Disputes There's never an assistant tournament director around when you need one.

The Hungry Player's Variable The late hour during the last round of play varies inversely with the closing time of the only restaurant near the tournament.

Corollary If there's a good all-night pizzeria nearby, the tournament will not permit adjournments.

The Anxiety Axiom The more you worry about a bad move you just played, the more likely you are to blunder the next move.

Von der Lasa's Insight A king is worth more than a minor piece in the endgame.

Tartakower's Principle of Promotional Paranoia A passed QR-pawn looks more dangerous on the second rank than on the seventh.

Fischer's Observation To get squares, you gotta give squares.

Tarrasch's Testament Never move a pawn and you will never make a mistake.

The Three Postulates of Post-Game Analysis

I. One man's brilliant resource is another's cheap tactical trick.

II. Nothing improves the quality of the game you just won like a sloppy post-mortem.

III. Never open the analysis to kibitzers under 10, players who lost when you won (and vice versa), or anyone wearing a green visor.

—Andy Soltis,
from *Chess Life*, March 1981

an·droid

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New York	June 25-July 4
Minneapolis/ St. Paul	July 12-18
Cincinnati	July 12-17
Seattle	July 30-Aug. 6
Milwaukee	Aug. 11-15
Newport, R.I.	Aug. 21-22
Chicago	Aug. 30-Sept. 5
Detroit	Sept. 1-6
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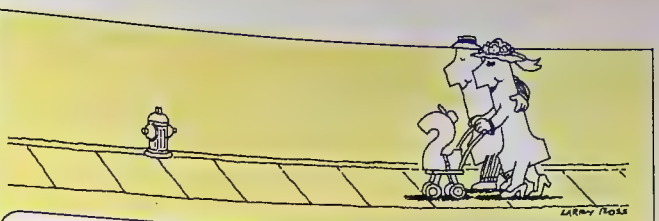

TORMENTORS

All Wound Up

Which is better, a clock that is right only once in two years or a clock that is right twice every day? "The latter," you reply, "unquestionably." Very good: Now attend.

I have two clocks: one doesn't go *at all*, and the other loses a minute a day. Which would you prefer? "The losing one," you answer, "without a doubt."

Now observe: The one that loses a minute a day has to lose 12 hours, or 720 minutes, before it is right again; consequently, it is only right once in two years, whereas the other is evidently right as often as the time it points to comes around, which happens twice a day. So you've contradicted yourself *once*.

"Ah, but," you say, "what's the use of its being right twice a day, if I can't tell when the time comes?"

Why, suppose the clock points to eight o'clock; don't you see that the clock is right *at* eight o'clock? Consequently, when eight o'clock comes round your clock is right.

"Yes, I see *that*," you reply.

Very good, then you've contradicted yourself *twice*: Now get out of the difficulty the best you can, and don't contradict yourself again if you can help it.

You *might* go on to ask, "How am I to know when eight o'clock *does* come? My clock will not tell me."

Be patient: You know that when eight o'clock comes your clock is right, very good; then your rule is: Keep your eye fixed on your clock, and the *very moment it is right* it will be eight o'clock. "But—" you say. There, that'll do; the more you argue, the farther you get from the point, so it will be as well to stop.

—Lewis Carroll

NUMBER PLAY

Armchair Holiday

Can you find the digits to replace each of the letters in these cities? As in a cryptogram, a letter stands for the same digit throughout.

```
  L I S B O N
+ L O N D O N
-------------
  M A D R I D
```

—Sid Kravitz

Answer Drawer, page 90

WORDPLAY

Get the Word Out

There *is* a common English word expressed in this string of letters and numbers. Can you work it out?

E10100010001000UNI100ATXN

—from *Brainteasers & Mindbenders* (Prentice-Hall, Inc.) ©1981 by Ben Hamilton

Answer Drawer, page 90

TOUGH NUTS

Is Winning Everything?

In this unusual bridge puzzle, South can easily take all 13 tricks as declarer in a no trump contract; the challenge is to find a way for South to *lose* two tricks after an opening spade lead. No revokes allowed. —Mel Stover

Answer Drawer, page 90

NORTH
♠ A K 9
♡ Q J 10
◇ 9 8 7
♣ 9 8 7 6

WEST
♠ Q J 10
♡ 9 8 7
◇ 5 4 3
♣ 5 4 3 2

EAST
♠ 5 4 3 2
♡ 6 5 4 3 2
◇ 10 6 2
♣ 10

SOUTH
♠ 8 7 6
♡ A K
◇ A K Q J
♣ A K Q J

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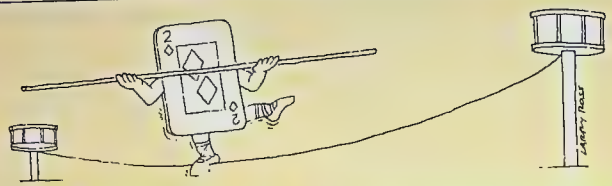


FOR THE RECORD

Keeping in Shape

Sure, you're a whiz on the court and an ace on the field—but how much do you really know about where you play, and with what? Assess your sports awareness with this round of challenges.

1. Can you rank these playing fields according to area?
a. ice hockey rink
b. volleyball court
c. jai alai court
d. polo field
e. cricket field
f. tennis court

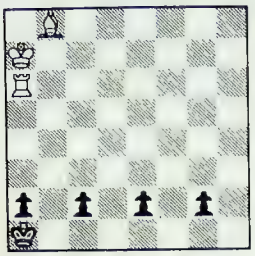
2. We're not asking you to juggle—just arrange these playing balls in order of their weights.
a. football (U.S.)
b. softball
c. soccer ball
d. lacrosse ball
e. volleyball
f. basketball

3. And for extra credit, which weighs more—a badminton racket or a boxing glove? A horseshoe or a bowling pin?

Answer Drawer, page 90

TOUGH NUTS

The Bank Robbery



In this old classic, the chief of police (the white king) sends out his policemen (the white bishop and rook) to apprehend the burglar (the black king), who dodges bullets behind the pillars (pawns). White is to move and checkmate Black in 17 moves. (Note: Since Black is moving down the board, his pawns are only a square away from promotion.)

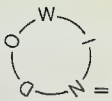
—Mel Stover

Answer Drawer, page 90

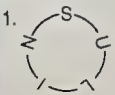
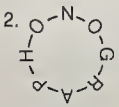
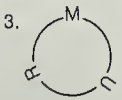
LOOK

Circular Reasoning

Each of these letter-circles represents a word that can be spelled out by starting at the appropriate letter and moving clockwise around the circle. You may use letters over again, but you may not skip a letter.

For example:  = WINDOW

Can you determine the rest of these roundabout words without getting dizzy?

1. 
2. 
3. 
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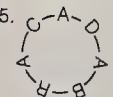
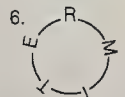
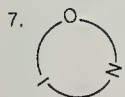
5. 
6. 
7. 
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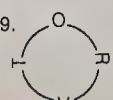
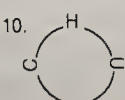
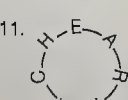
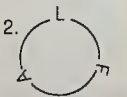
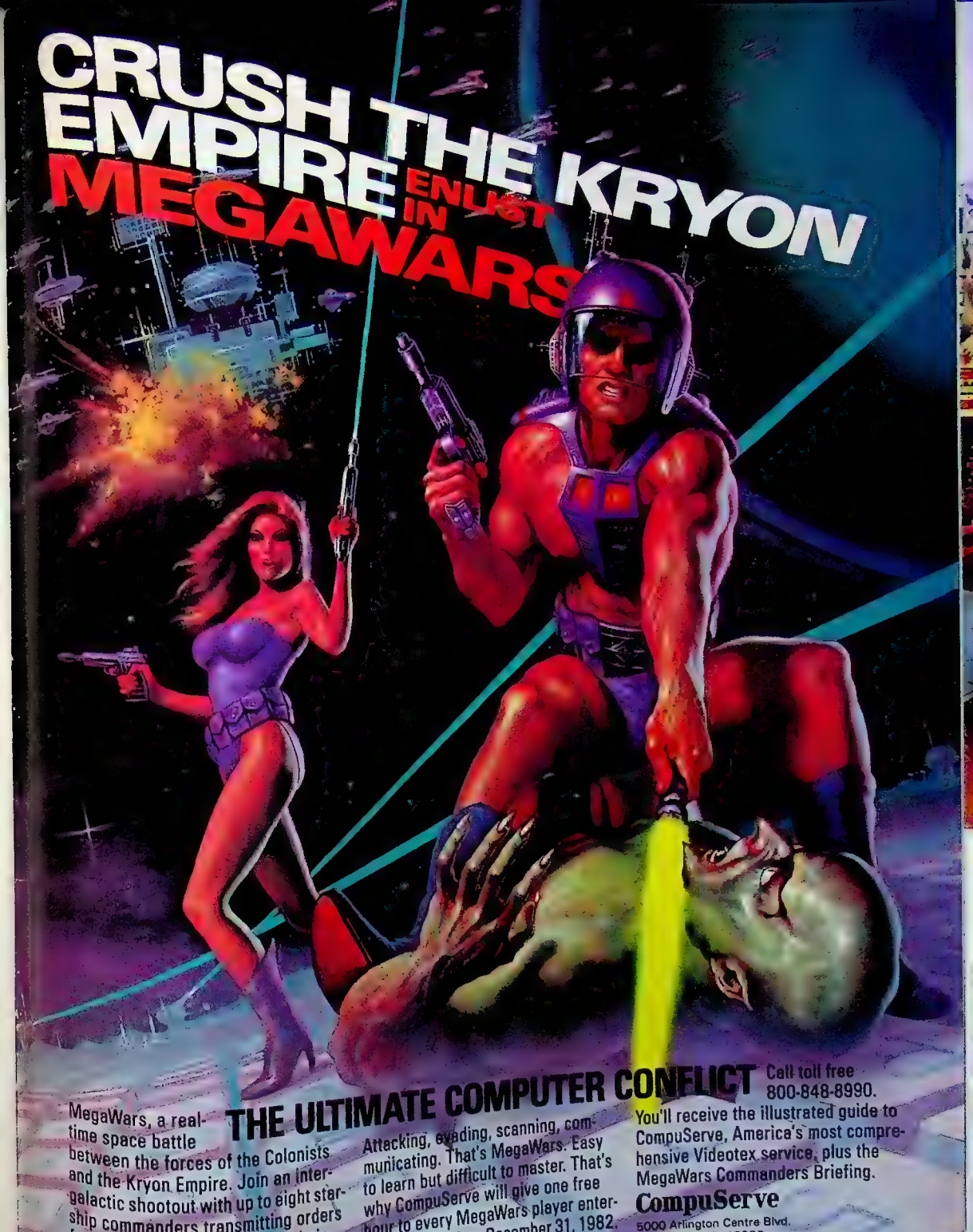
9. 
10. 
11. 
12. 

—Stephen Sniderman

Answer Drawer, page 90



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ANSWER DRAWER

8 Letters

N.E.A.T.er

Ray Love. 5 = Senses, 360 = Degrees in a Circle, 2 = Aspirin for a Headache, 9 = Lives of a Cat, and 7 = Years of Bad Luck.

Paul Williams: 54 = Squares on a Rubik's Cube, or 84 = Squares on a Rubik's Cube, if on each side you count the nine single squares, the four two-by-two squares, the one three-by-three square, and then multiply by the Cube's six sides.

10 Laundry Basket

You can find the following rhyme by starting in the indicated square and moving through the grid in the manner of a chess knight:

Although the lowly hyphen might
Seem very insignificant
To put one where it shouldn't be
Is definitely –ungallant

Your "Horseplay" puzzle had within
A mis-placed dash, and we assert
That having found your error out
We ought to get a *Games* T-shirt

39 Mixing with Royalty

I	R	A	Q	I			J	A	S			A	D	S
R	E	R	U	N		R	A	S	P		A	L	O	U
A	L	I	E	N		O	C	T	O		L	A	W	N
S	I	D	E		R	E	K	I	N	D	L	I	N	G
	T	E	N	S	E		O	N	S	E	T			
			E	N	D	O	F		O	T	H	E	R	S
S	H	A	L	E		L	A	H	R		E	R	I	E
E	E	R	I	E		E	L	I		S	K	A	T	E
A	R	I	Z		B	O	L	L		W	I	S	E	R
T	O	D	A	T	E		T	O	M	A	N			
			B	A	L	E	R		A	N	G	L	E	
S	W	E	E	T	M	E	A	T	S		S	O	N	S
T	H	A	T		O	L	D	E		A	M	U	S	E
O	A	T	H		N	E	E	D		L	E	T	U	P
P	T	S			T	D	S			I	N	S	E	T

68 Eyeball Benders

1. Fork
2. Inside of lampshade
3. Pliers
4. Cantaloupe
5. Cigarette lighter
6. Tennis racket
7. Goggles
8. Clothespin

31 Time Piece

The order of the photographs following #1 (which is inside photo E) is E, H, A, G (inside photo F), I, D, B, C, F, J.

The large overall photo had to have been taken last, since it includes all the other pictures, so the watch at the lower left (J) must read 11:00.

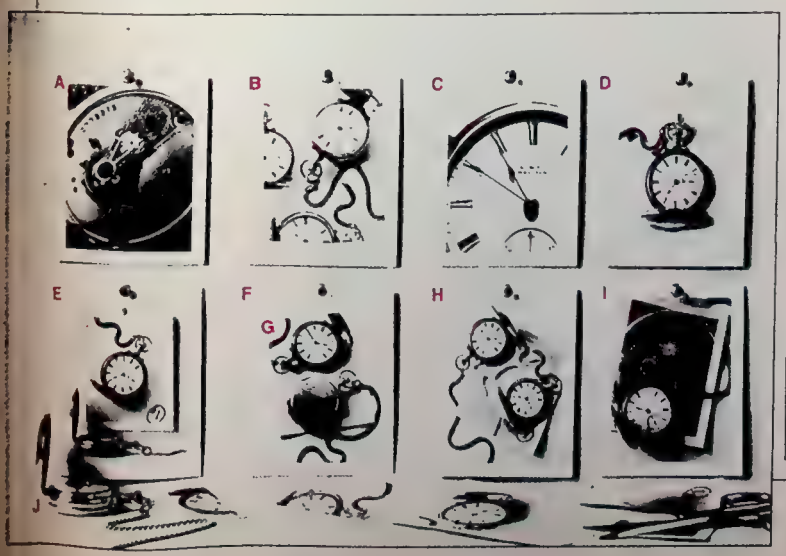
The first shot, taken at 10:10 and labeled #1, was rephotographed several times during the sequence, both before and after being cut apart. The "real" watch in photo H reads 10:20, so the original 10:10 photo was cut apart by that time. Hence E, which is a photo of the 10:10 picture *before* it was cut apart, must have been taken at 10:15.

Photo G, which appears within photo F, reads 10:30. Since photo I was taken at 10:35, after photo A (which is included in I), photo A must have been taken at 10:25, the only 5-minute increment before 10:35 not yet accounted for.

Photo B shows the 10:10 watch in two pieces, so B had to have been taken after photo D, which shows the same watch before it was cut in half (the inner pushpin in photo D, and the fact that the chain doesn't go all the way to the edge, show that it was cut out of the photo labeled #1). Since photo B was taken at 10:45 (reading the "real" watch directly), D must have been shot at 10:40, the only increment before 10:45 not accounted for.

Photo C is obviously 10:50, and F must be 10:55, the only remaining increment.

Lying on the table, both next to the real watch at left and under the scissors at right, are the remains of the original 10:10 photo, which appeared first in photo E, then was cut up for photo H, pinned up for photo D, and finally cut in half for photo B. The original 10:30 photo (G), which appears in photo F, is lying to the left of the scissors.



18 Puzzling Paradoxes

A Sentence and Its Opposite

The dilemmas cannot be resolved because the statements are self-contradictory. The situation is a variation of the notorious liar paradox: "This sentence is false." If it's true, it's false; if it's false, it's true.

Crocodile and Baby

If the mother had said, "You're going to give the baby back," the crocodile could return the baby or eat it, in both cases without contradiction. If he gives it back, the mother spoke truly, and the crocodile has kept his word. On the other hand, if he is mean enough, he can eat the baby. This makes the mother's statement false, which frees the crocodile from the obligation to give the baby back.

Wishing Won't Make It So

If the mother got her wish for her son to win, then *she* must have won (otherwise she wouldn't have gotten her wish). If she had won by pulling the larger part of the bone, she could not get her wish for her son to win. The situation is self-contradictory.

The Curious Will

This is a modern version of an old Arabian paradox involving horses. You can vary the terms of the will by changing the number of cars and dividing them up by a different set of fractions, subject to the condition that the borrowing of one car permits carrying out the terms of the will with one car left over to be returned to the lender. For example, there could be 17 cars to be divided into halves, thirds, and ninths. If there are n cars, and the three fractions are $1/a$, $1/b$, and $1/c$, the paradox holds only if the equation

$$\frac{n}{n-1} = \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$$

has a solution in positive integers. See if you can elaborate on the problem by increasing the number of cars, as well as increasing the number of cars to be borrowed in order to carry out the will.

The resolution of the paradox is that the fractions decreed by the original will have a sum that is less than 1. If the will were carried out by actually cutting up the cars, $^{11}/_{12}$ of a car would be left over. Ms. Zero provides a way of distributing that $^{11}/_{12}$ to the sons. Thus, the oldest gets $^{6}/_{12}$ of a car more than he would have gotten before, the middle son $^{3}/_{12}$ more, and the youngest $^{2}/_{12}$ more. These three fractions add to $^{11}/_{12}$, and since each son now gets an integral number of cars, no cutting is necessary.

Newcomb's Paradox

This new paradox, invented by a physicist, William Newcomb, is the latest and most bewildering of the many prediction paradoxes philosophers are currently debating. Experts do not yet know how to solve it.

The man's decision to take only box B is easy to understand. To make the woman's argument clearer, recall that Omega has gone. Box B is either full or empty, and it is not going to change. If B is full, and the woman takes only B, she gets $1 million plus $1,000. If B is empty, and she takes only B, she gets nothing. But if she takes both boxes, she gets at least $1,000. In each case, therefore, she is richer by $1,000 if she takes both boxes.

Believers in free will favor taking both boxes, and believers in determinism favor taking only box B. Others argue that the conditions demanded by the paradox are contradictory.

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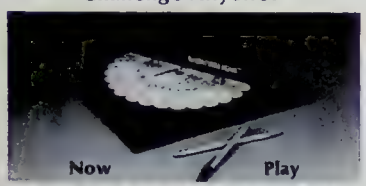

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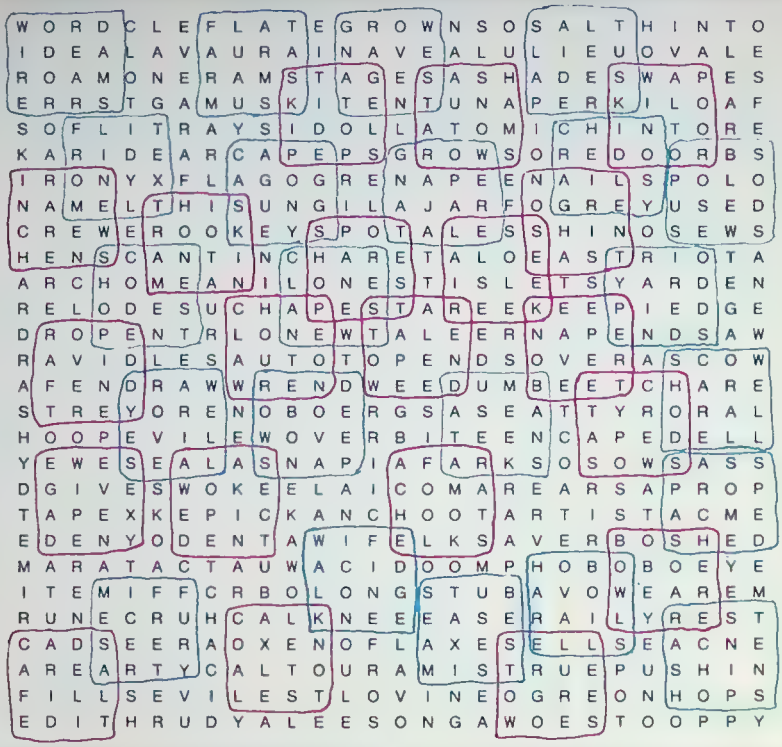
40 Find the Word Squares



63 Rock Lists

The fakes are.
Life Before Rock: 3, 4, 8, 10
Quotations from Chairman Elvis 2, 3, 7
Made the Cover of *Time*: 3, 4, 7, 9
Stars on Hollywood Boulevard
2, 3, 5, 8
Faces on "Sgt. Pepper": 3, 7, 10, 11, 14, 16, 18
Do You Hear What I Hear?: 2, 4, 5
How Bands Got Their Names. 3, 6

Original lists from *The Book of Rock Lists*, ©1981 by Duke and Duchess Ventures Inc. and Heaven Research Inc., courtesy of Dell/Rolling Stone Press

50 Shedding Light

38 "Double Meant" Twins

1. Paragraphs
2. Paradise
3. Parapets
4. Paraffins
5. Paradigms
6. Paradox or paramedics
7. Parasites
8. Parables
9. Paramours
10. Paraphrase
11. Parachutes
12. Paralyze

Fake Advertisement

The "Fake Ad" announced in the Table of Contents was for Marcel Marceau Live! on page 79. It was created by Terry Shimmins and won the Fake Ad Contest (May/June 1981, page 22). Photo by UPI

52 Double Cross

A. SEDITION
B. AFFORDABLE
C. LITTLE
D. IGNOMINY
E. NUTHATCH
F. GRUFFLY
G. ELKHOUND
H. RHYTHM
I. TITTLE
J. HITCHHIKE
K. ELIZABETH
L. CROWDED
M. ATHLETES
N. TOUT
O. CHEEKY
P. HEADER
Q. ENCHANTING
R. REJOICE
S. ILL-ADVISED
T. NOWADAYS
U. TOILED
V. HYSTERIA
W. EPIGRAMS
X. RELIGION
Y. YORKTOWN
Z. ESCARPMENT

I keep picturing all these little kids in this big field of rye . . . If they're running and they don't look where they're going I have to come out from somewhere and catch them. That's all I'd do all day. I'd just be the catcher in the rye and all. I know it's crazy.—(J.D.) Salinger, *The Catcher in the Rye*

44 Dszquphsbnt!

1. CRYPTOON. "Get rid of my tensions? You must be kidding: I couldn't do that—they are all that is holding me together."
2. SPECIALIZATION. If baseball players can have pinch hitters, why can't everyone? Then each of us could do just what we enjoy and do really well.
3. GARDENER'S VIEWPOINT. The best part of autumn is the brief period when the lawn no longer needs mowing and the leaves have yet to fall.
4. INVESTMENT TIP. Forecasting earthquakes in California may become profitable someday, but so far it is quite a shaky proposition.
5. PRIVATE JOKE. Old Army saying: If it moves, salute it. If it doesn't move, pick it up. If it is too big to pick up, paint it.
6. BRUSHING UP. One way to remember your dental appointments is always to make them for two thirty ("tooth hurty").
7. NOSTALGIA. We call them the "good old days" because we were not good, we were not old, and we were talking about the nights.

60 Couples

The reunited couples are

1-17	4-10	8-12
2-14	5-7	9-16
3-18	6-13	11-15

51 Cryptic Warm-Up Puzzle

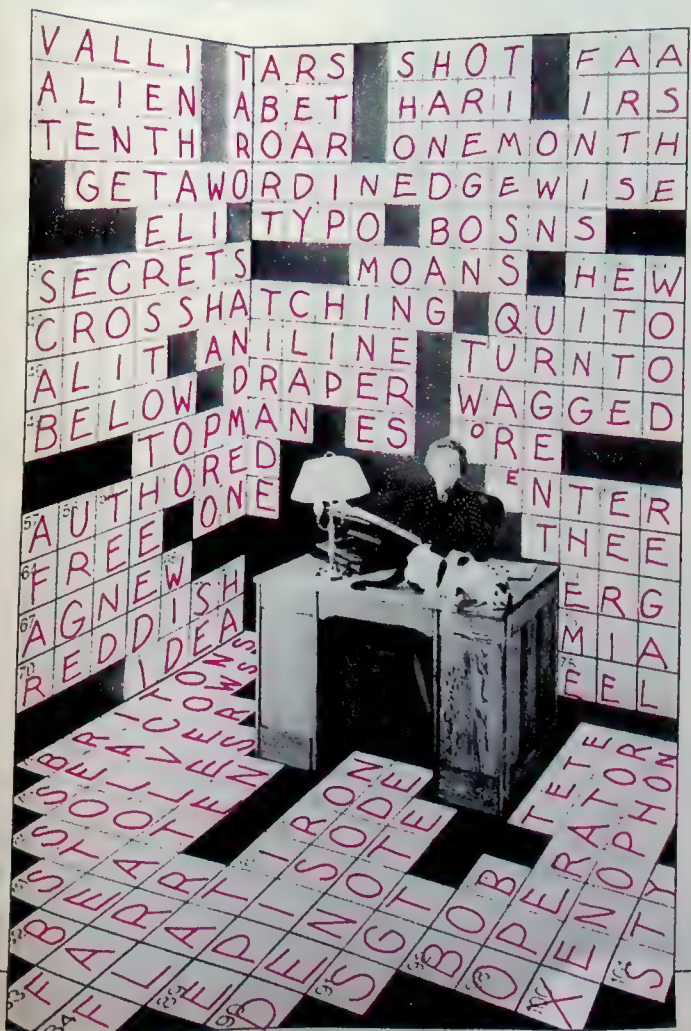
ACROSS

1. LODE. The word LODE (defined as "silver mine") sounds the same as LOAD ("shipment"). The word "said" indicates that the adjacent word, LOAD, is to be spoken out loud to get the answer.
5. GENUINE. The word GENUINE ("real") is an anagram of INGENUE. The words "in disguise" suggest the anagram.
6. TRIPLET. The answer, TRIPLET ("one in three"), is a combination of TRIP ("travel," as a noun) and LET ("permit," as a verb).
7. ODOR. The answer is defined as "skunks have it," and lies hidden in the phrase "sO DO Rats." The words "to some degree" suggest the concealment.

DOWN

1. LIGHTS. The word LIGHTS ("lamps") appears in FLIGHTS ("airplane rides") after the first letter.
2. DENNIS. The answer, DENNIS (as in "Dennis the Menace"), is an "impish cartoon boy," and is also a reversal of SINNED ("did a no-no"). The phrase "on the escalator" hints cryptically that SINNED is to be entered from bottom to top.
3. BILLED. If you put ILL ("sick") in BED, you get BILLED ("charged").
4. LETTER. The word LETTER in two different senses means "I, for example" and "dispatch" (as a noun).

26 A Puzzler's Crossword



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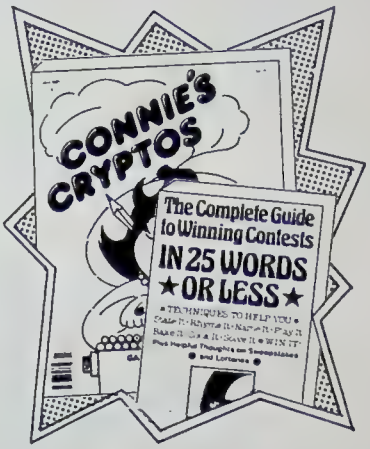

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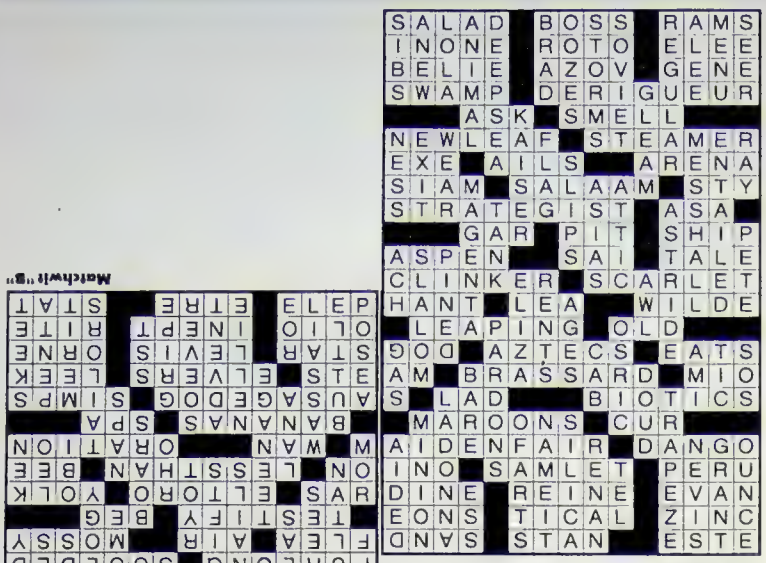
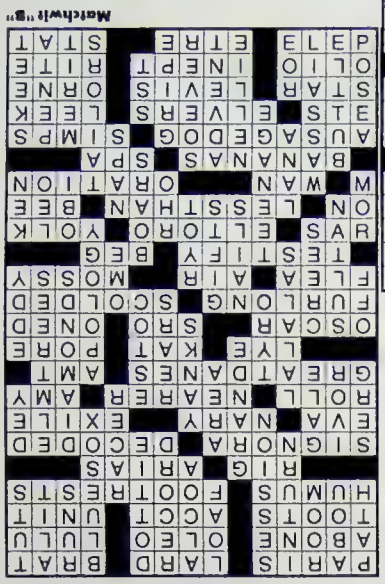
53 Matchwit



Matchwit "A"

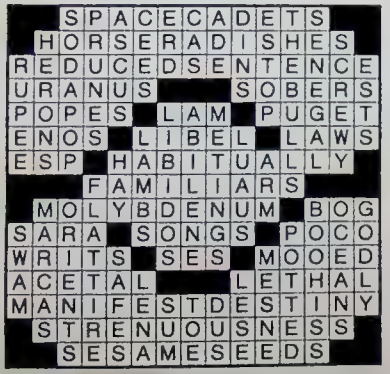


Matchwit "B"

56 Rebus Charades

I. Volcano (4, viol + canoe)
II. Midnight (9, maid + knight)
III. Scalpel (5, scar + lapel)
IV. Orange (2, oar + angel)
V. Spinach (7, Spain + arch)
VI. Vulture (10, vault + lure)
VII. Pistol (1, pig + stool)
VIII Derrick (8, deer + brick)
IX. Toenail (6, token + pail)
X. License (3, slice + nose)

41 Gridlock



14 Gamebits

Art Decko
From left to right, left hand: ten of diamonds, two of diamonds, king of diamonds, king of clubs, and three of hearts. Right hand: the ace of hearts, eight of diamonds, ten of diamonds, queen of clubs, and queen of spades. Two kings beats two queens.

An Aye for an Eye
From top to bottom, the eyes belong to: Goldie Hawn, Jane Seymour, Omar Sharif, Bette Davis, Suzanne Pleshette, Brooke Shields, Mikhail Baryshnikov, Elizabeth Taylor, Liza Minnelli, and Carol Channing.

39 How to Hug

1. (I) *Ragtime*
2. (A) *All the King's Men*
3. (C) *The Day of the Locust*
4. (G) *The Happy Hooker*
5. (J) *Roots*
6. (K) *A Study in Scarlet*
7. (H) *Of Mice and Men*
8. (D) *Deliverance*
9. (B) *The Complete Book of Running*
10. (L) *Watership Down*
11. (E) *For Whom the Bell Tolls*
12. (F) *From Here to Eternity*

35 Alphabet Coup

Reason arrested Vincent. Hudson had scratched the initials R I V on the floor. Vincent saw that by inserting an S between the R and the I, and a U between the I and the V, and then changing the I to a T by crossing it, he could disguise Hudson's clue within the alphabet. When he scratched the other letters he made suitably erratic spacing. No other combination of letters, job-related or monogrammatic, could be so disguised.

32 Take Five

Left, top to bottom:
Saks Fifth Avenue
basketball team (five players)
Eric Heiden, winner of five Olympic gold medals
month of May
5 o'clock
George V, King of England 1910-1936
five candles (fifth anniversary)
five-layer cake
five-card stud poker hand
Scrabble rack with the word NICKEL (5 cents)
K tile (worth 5 points)
starfish
the Pentagon
Five Easy Pieces (Jack Nicholson movie)
Nicholson's 5 o'clock shadow
roll of 5 on the die
five gold rings (fifth day of Christmas)
5-cent cigar
$5 bill
Dave Clark 5

Center, top to bottom:
Jupiter (fifth planet from the sun)
Interstate 5
9 to 5 (Dolly Parton movie)
5 minutes to the hour
Chanel No. 5
five-scoop ice cream cone

Right, top to bottom:
Roman numeral V
5-&-10 cent store
Pente
psychiatric help 5 cents
Joe DiMaggio (No. 5)
The 5th Dimension record album
Dwight D. Eisenhower, five-star general
Dionne quintuplets
quintet
fifth of whiskey
Beethoven's Fifth Symphony
five-finger exercise (on the piano)
5-cent Coke
James Monroe, fifth President
on a 5-cent stamp

(No, that's not the fifth issue of GAMES in King George's hand, it's the first, included purely for nostalgia value.)

20 The Eternal Triangle

No matter what numbers you place in the triangles in the top row, the final triangle will always contain a 4.

49 In a Hurry?

A	I	D		M	A	I	N			N	I	T	S	
M	A	C	H	O		G	N	U		A	R	N	O	
L	E	R	O	I		V	E	T	O	E	D			
A	S	Q	U	I	C	K		A	S	A	W	I	N	K
E	N	I	S	L	E			S	T	U	R	M		
S	H	O	O	T	S		T	H	E	R	A	P	I	D
S														
S	O	O	N		P	I	S	A		O	H	O		
L	A	C		N	U	S		I	R	I		E	E	N
	P	U	N			L	I	N	E			E	P	A
Z	E	N	A	N	A			A	B	S		B	L	O
O	D													
F	A	S	T		F	O	O	D		R	E	S	T	A
U	R	A	N	T										
A	S	S	T			W	A	X		R	A	G		
N	E	V	E	R										
T	A	T		A	P	I	U		T	U	N	I	S	
O	C	T	O	P	I									
T	H	E	H	U	S	T	L	E		A	N	D		
T	H	E	B	U	S	T	L	E						
A	A	R	O	N	S		T	R	E	K	S		R	Y
O	T		R	U	R									
C	R	E	S	T			O	N	E		F	E	R	
H	E	S	S											
H	A	S	T	Y	P	U	D	D	I	N	G	A	W	A
R	D	S												
A	P	I	N	E	A		O	L	D		O	U	T	S
E	T													
S	E	S		T	R	Y	A		U	P	S		D	S
O		T	A	R										
O	P	E		E	L	O		A	G	R		I	V	E
S		L	O	S	E									
R	U	S	H		H	O	U	R		T	R	A	F	F
I	C		C	O	O	T	S							
A	R	T	I	E		R		S	P	E	E	D	Y	
G	O	N	Z	A	L	E	S							
R	E	E	V	E	S			V	A	C	U	A		I
D	E	A		I	R	E								
E	S	T	E	S				P	R	O	S			L
E	E	R			E	N	D							

ARIARTA

KNIGHTSCOURT

ROAD

CUTHBERT CIRCULAR

CASCADE

HORNI

JURAWAN

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JASMINE

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[use separate sheet if you prefer]

Please send everything I'll need. My $15 entry fee (to 'Trophy Dash') is enclosed.

name

address

city state zip

42 Thinking Physics

1. MAGNET CAR: (c) The force of the magnet pulling on the iron car is counterbalanced by the force of the iron car pulling on the magnet. Since the magnet is attached to the car through the boy, the two forces in effect cancel each other, and no work is done.
2. RUBBER BULLET: (a) The momentum of the aluminum bullet is transferred completely to the block, which supplies the necessary impulse to stop it But for the rubber bullet, the block supplies not only the impulse necessary to stop it, it also provides enough additional impulse to "throw the bullet back." Depending on the elasticity of the rebound, this results in up to twice the impulse for the impact of the rubber bullet, and therefore up to twice the momentum is imparted to the block. So the rubber bullet is more likely to knock it over.
3. TURNING CART WHEELS: (a) The left wheel is the first to encounter the grass, so it is the first to be slowed. The right wheel remains at its greater speed on the sidewalk until it meets the grass When both wheels are in the grass, they again move in a straight line.
4. COLD BATH: (c) The weight of the water displaced by the iceberg exactly equals the weight of the iceberg. When it turns back into water, it fits exactly into the volume of water it displaced when it was an iceberg
5. GOING DOWN: (b) Because water is practically incompressible, its density near the surface is the same as it is deeper down. Thus, the buoyant force needed to hold the boulder is the same regardless of the boulder's depth
6. CAROUSEL: (b) By the time the ball reaches the other side of the carousel, Danny will have moved to the left of where he was when the ball was thrown. Thus, it will pass to the right of him.
7. TOUGH NUT: (b) The screw and the nut are not completely in contact; there is a small space between them. For the very tight nut the problem is that this space is too small. How can it be increased? By heat. Heat will make everything expand: the nut, the screw, and the space between them. So to loosen the nut, heat it.
8. CREAM IT: (a) You should add the cream right away. The hotter a body is, compared with its surroundings, the greater the rate at which it cools (Newton's law of cooling: a hot body cools faster, degree for degree, than a warm body) So by adding the cream right away you reduce the cooling rate of the coffee during the interval before drinking time. If you wait, the hot coffee will cool fast, and when you finally add the cream you'll bring the temperature down even further.
9. TORQUE: (b) No. Attaching the rope merely increases the distance from the bolt to the location of the applied force; it doesn't increase the leverage. For more torque, Harry needs either a longer wrench or more pull.
10. BOTTLENECK: (b) Water flows fast in narrow parts and slow in wide parts, just as in a creek.
11. JAR OF FLIES: (c) The weight depends on the mass in the jar, and the position of the flies does not change that. Their weight in flight is transmitted to the bottom of the jar by the air currents generated by their wings.

Thinking Physics by Lewis C. Epstein and Paul G Hewitt is available for $9.95 plus $2 postage and handling from: Insight Press, 614 Vermont St. at 18th St., San Francisco, CA 94107. California residents add 60¢ sales tax per copy.

41 Squeeze Play

1. Anatomy
2. Businesses
3. Cantilever
4. Compartment
5. Cologne
6. Cooperate
7. Courthouse
8. Designer
9. Eyesight
10. Laughter
11. Mislead
12. Magnetic
13. Mindreader
14. Resident
15. Sequester
16. Surgeon

37 Right Angles

Right Angles #1

N	E	S	T	E	C	H	E
O	G	E	E	G	N	I	F
S	A	M	R	G	A	N	S
D	M	I	B	I	M	I	N
E	O	C	O	L	O	N	O
D	R	A	W	O	C	L	E
N	E	L	L	O	Y	A	L
W	O	L	C	H	A	M	E

Right Angles #2

I	L	A	J	E	U	L	B
C	A	Y	U	S	F	F	O
E	C	S	K	A	E	R	N
T	I	H	E	L	P	O	G
Z	X	O	B	T	O	B	I
A	E	N	I	M	H	O	S
I	M	E	T	O	L	W	S
R	E	H	C	O	L	E	U

WILD CARD ANSWERS

From A to ZZZ

The letter M can be prefixed to all of these words to form new ones.

Roll Call

He had 36 students in his class

Y Not?

1. Dryly
2. Flyby
3. Lymph
4. Nymph
5. Pygmy
6. Tryst

Once in a Blue Moon

The letter N.

Star-Gazing

1. D 2 1 (gear indicators on a car's automatic transmission)
2. U (channels on a TV dial)
3. P R S (letters on a telephone dial—no Q)

Take a Number

If you convert the numbers listed to Roman numerals, each one represents the initials of one of the individuals named. So:

1. (d) Cornelius Vanderbilt (105=CV)
2. (e) Christopher Columbus (200=CC)
3. (j) Louis Vuitton (55=LV)
4. (f) Diego Velázquez (505=DV)
5. (g) Meriwether Lewis (1050=ML)
6. (l) Iris Murdoch (999=IM)
7. (h) Moshe Dayan (1500=MD)
8. (c) Marilyn Monroe (2000=MM)
9. (i) Xavier Cugat (90=XC)
10. (b) Charles Darwin (400=CD)
11. (k) Dorothy Lamour (550=DL)
12. (a) Marie Curie (1100=MC)

Shelling It Out

Witlock simply performed each calculation on his pocket calculator and turned each resulting figure upside down. The upside-down numbers "spelled" three words: SELL SHELL OIL.

Poetry in the Kitchen

1. (g) grenadine for the Queen
2. (j) fudge for the judge
3. (c) lox for the jocks
4. (a) mints for the Prince
5. (i) kasha for the pasha
6. (d) plums for the bums
7. (b) leeks for the sheiks and chives for their wives
8. (f) crabs for the scabs
9. (k) melons for the felons
10. (h) liquor for the vicar and buns for the nuns
11. (e) granola for the Ayatollah

Armchair Holiday

```
  475836
+ 436236
  912072
```

Get the Word Out

Excommunication. Thus.

E 10 100 0 1000 1000 UNI 100 AT X N
E X C O M M UNI C AT IO N

Is Winning Everything?

South captures the first trick with the ace, then cashes two heart winners, four clubs, and four diamonds. If West plays a spade on the last diamond, a heart is thrown from dummy; then a low spade from both the North and South hands will saddle West with the last two tricks If instead West discards a heart on the last diamond, the king of spades is discarded from dummy, and West is forced to win two spade tricks

Keeping in Shape

1. In ascending order of area: e (cricket, 66 × 10 feet); b (volleyball, 59'1" × 29'6"); f (tennis, 36' × 78'); c (jai alai, 40' × 176'); a (ice hockey, 200' × 100'); d (polo, 900' × 480').
2. The balls, in weight order, are: d (lacrosse, 5.25 oz.), b (softball, 7 oz.); e (volleyball, 9.88 oz.); a (football, 15 oz.), c (soccer, 16 oz); f (basketball, 22.9 oz.)
3. A boxing glove is nearly twice as heavy as a badminton racket (8 oz. versus 4.5 oz.), but a bowling pin outweighs a horseshoe (3 lbs 10 oz. versus 2 lbs. 8 oz)

—from *The Sports Fan's Book of Ultimate Sports Comparisons* (St. Martin's Press) © 1982 by Diagram Visual Information, Ltd.

The Bank Robbery

1. Bb8-e5+ Ka1-b1 2. Ra6-b6+ Kb1-c1 3. Be5-f4+ Kc1-d1 4. Rb6-d6+ Kd1-e1 5. Bf4-g3+ Ke1-f1 6. Rd6-f6+ Kf1-g1 7. Bg3-f2+ Kg1-f1 (if the King moves to h1 or h2 instead, then Rf6-h6 is mate) 8. Bf2-c5+ Kf1-e1 9. Bc5-b4+ Ke1-d1 10. Rf6-d6+ Kd1-c1 11. Bb4-a3+ Kc1-b1 12. Rd6-b6+ Kb1-a1 13. Ba3-e7 c2-c1=Q 14. Be7-f6+ Qc1-b2 15. Rb6xb2 g2-g1=Q+ 16. Rb2-b6+ Qg1-d4 17. Bf6xd4 mate.

Circular Reasoning

1. Insulin(s)
2. Phonograph
3. Murmur
4. Sheepish
5. Abracadabra
6. Termite
7. Onion
8. Entertainment
9. Orator
10. Church
11. Heartache
12. Alfalfa

"Yeah, I used your special fly. No!...it's bigger than that! Must be the granddaddy of that one Harry got last year. I'd say it's about...well, let's just say it's lucky we all like fish."

A laugh. A smile. A fish story. Reach out and keep faraway friends part of your life.

Bell System

Reach out and touch someone.

59 Extrasensory Deception

To begin with, Crispin had a highly trained memory. Wherever he went and whomever he talked to, he mentally noted whatever fact turned up; some he would be able to use, some he discarded. On arrival at the airport, he set in motion part of his standard operating procedure. He called the hotel where he had been told he would be staying, to leave a phony message (see #4), but discovered he wasn't registered there. Then, pretending to be a reporter, he phoned the university seeking an interview with the psychic. Thus he learned the name of the new hotel (#3), and on further questioning got descriptions of Shillip (#1) and Judy and the news that they would both be meeting him (#2).

At the airport, Crispin called the Dorchester and left the message purportedly from his mother (#4).

Crispin took a chance on the vague phrase "on the way" (#5). If Shillip's house wasn't actually on the way to the campus, the expression could be passed over as meaning simply "while we're going"; if the house really was en route, Crispin would luck out.

When Shillip dropped Crispin off at the hotel, the psychic noted the car's odometer reading and, when he was picked up again, automatically noted the mileage to Shillip's house. Then, on the unexpected trip back to the house, Crispin made use of this information (#6).

During his 45-minute wait at the hotel bar, Crispin studied the local phone book (see #10). About ten minutes before the professor was due back, Crispin phoned Shillip's home, leaving the receiver off the hook and placing an "out of order" sign on the phone. Thus, Shillip's phone would keep ringing (#7). When he made the call, Crispin had planned to say to Shillip, later in the evening, "Someone has been trying for hours to reach you on the phone." However, the unexpected trip to Shillip's house allowed Crispin to use this gambit to more dramatic effect.

While Shillip and Judy went into Shillip's house to get the check, Crispin quickly riffled through the glove compartment. Here he found an RSVP to Shillip's upcoming wedding (#8).

When Crispin was reading the newspaper during the trip from the airport, he noticed that several ads for motorcycles had been circled and deduced that Shillip was looking for one (#9).

The trick at the end of Crispin's performance was simple (#10). By using dice, he limited the numbers that a volunteer could choose. The highest number that can show on three dice with different numbers is 654; the lowest, 123. Reversing either of these numbers or any number in between, and then subtracting the smaller number from the larger, can produce only five possible results: 99, 198, 297, 396, and 495. Thus the volunteer was forced to choose one of those pages in the phone book. While at the hotel, Crispin had simply checked all five pages and memorized the first phone number listed on each of them. Onstage, even though he was blindfolded, Crispin could see the phone book by peeking down the side of his nose. And he could tell which of the five pages had been selected by the thickness of the open directory. He deliberately muffed the first guess for dramatic effect.

Lastly, while ostensibly going to the bathroom at Shillip's house, Crispin set the clock in the professor's bedroom ahead about a half-hour (#11). At the time, he was not quite sure what use he would make of this, but he figured something would turn up. While waiting in the auditorium to go on stage, he saw a notice of a special class that Shillip was going to teach the following morning. This provided a peg for the fast clock at Shillip's home, especially when Crispin put it together with the professor's tendency to be late.

Why didn't Crispin predict the car accident? We'll let you figure that one out for yourself.

From May/June

Your Move: Color Stuffer Contest

The prize of a game from our library goes to William Ingram, Boulder, CO, for this grid containing 59 color names:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	R	A	T		F	I	R		B	I	C	E		C	
2	E	M	A	I	L		A	I	R		O		B	U	D
3	D	U	N		E		B		O		D	R	A	B	
4		L		B	A	M	B	O	O				B	A	Y
5	A	E	R	O			I		M		H	A	Y		E
6	S	T	O	N	E		T								W
7	P		S	E	A	L		S	I	L		I		I	
8	E		E		G			A		A		B	A	R	K
9	N			P	L	O	M	B		C	A	I	R	O	
10		S	T	E	E	L		L				S	A	N	D
11		I		A		D		E			D		B		I
12		L			S	E	A			M	U	D			A
13	S	K	I		U			B		E	C	R	U		D
14	A		V		N	E	V	A		S	K	Y			E
15	P	I	Y	U				T	E	A			E	L	M

Games T-shirts go to Paul Waters, Victoria, BC, and Roger Lostrom, Stone Park, IL.

51 Cryptic Crossword

ACROSS

1 Striptease (tapestries)
6 Swap (paws)
9 Remit (timer)
10 Treasured (tread + sure)
12 Apostle (ale + post)
13 Units (U.N. + sit)
15 Intruded (dried nut)
17 Linger (BerLIN GERmany)
19 Choice (chop ice – p)
21 Bandanna (band + Anna)
23 Verdi (drive)
24 Chowder (chow + der)
27 Romantics (romp – p + antics)
28 Leave (MapLE AVEnue)
29 Done (Donne)
30 Parliament (parent + mail)

DOWN

1 Sore (rose)
2 Rampart (Ram + part)
3 Patio (p + at + 10)
4 Entitles (tin-steel)
5 Scene (seen)
7 Warming (war + Ming)
8 Pedestrian (pedantries)
11 Studied (stud + die)
14 Discovered (disc + over + de)
16 Unction (function – f)
18 Carousal (carol + USA)
20 Oarsmen (some ran)
22 Narrate (ran + rate)
24 China (two meanings)
25 Delta (dealt)
26 Rent (two meanings)

53 Toy Blocks

"Every cubic inch of space is a miracle."—Walt Whitman

Cover: Pun-Up of the Year

Candy is wearing a: bottle cap, coat of arms, bathtub ring, railroad tie, hotel chain, tank top, window sash, sun belt, Freudian slip, garter snake, garden hose, horse shoe, gum shoe; and she's holding a sports fan.

Arrayed about her, counterclockwise from left: lamp shades, watch dog, fox glove, wind sock, gas pumps, cheap skate, shoe horn, lovers' spat, Soap Box Derby.

And hanging, left to right: elephant trunks, malpractice suit, tea shirt, stuffed shirt, city slicker, legal briefs.

Cover subtitle Eileen Krakower

EUREKA

Eureka is dedicated to those venturesome spirits who, never settling for a ready answer, have fought their way to a better, more elegant, or more complete solution than one previously given in the Answer Drawer.

★ **Beadless Abacus** (July/August, page 17). Jeff Harrison of Corning, NY observed that our instructions would not cover a situation in which the player's friend chose either the third row from the top or the third row from the bottom. He notes that if this happens, simply subtract the result of the operation in the corner cell opposite the row picked from 34, and you will have the answer for the row of three.

★ **Vegetarian's Delight** (Wild Cards, July/August, page 66). Debbie Jo Castro of New York, NY has submitted a valid alternative to our solution to the digit substitution puzzle:

CORN	8194
POTATO	216361
+ TOMATO	615361
CARROT	839916

★ **Odd One Out** (Wild Cards, July/August, page 67). Coleen Clark of Edgewater Park, NJ has proposed a valid alternative to our answer: Richard Nixon is the only former President in the list of five who is still alive.

★ **View Over the Fat Farm Wall** (May/June, pages 22-23). Numerous readers, eager to improve on our answers, have drawn the following images from the picture puzzle: The boxer is receiving a karate *chop*, the jeans ad features *rump*, the beautician's hair is in a *bun*, the tart may as easily be called a *tomato*, the boxer has an impressive set of muscles (*mussels*), the shoes in Ted's window have *waffle* soles and Ted himself is a *cobbler*, there is a *pi* in the *formula* on the blackboard, the professor has a bald *pate*, Hamlet is *Danish*, the ducking man is a *string bean*, the boxer and the karate expert are having a *rhubarb* or *beef*, there are many *ladyfingers* in the picture, both Napoleon (the *fruitcake*) and the jeans ad represent *French dressing*, the bumper sticker on the Rabbit is a *New York strip*, and, finally, there is a *Blimpie* on the left-hand corner of the view over the fat farm wall. Of course it is possible to find or fancy many other suggestions of food in the picture, but we're very full, couldn't touch another thing, thanks.

Between the Sheets

It has been suggested that a good way to conserve fuel in winter would be an occasional working week in bed for all bureaucrats, journalists, and others whose labors deal chiefly with paper and telephones. In fact, more than a few prominent people have functioned admirably from this posture of relaxation. Witness these examples:

- Henri Matisse, in his old age, would draw on his bedside walls with bits of charcoal affixed to the end of a long cane.
- John Milton composed *Paradise Lost* in bed.
- Samuel Johnson, when a young, starving writer, was forced to produce his small histories and pamphlets in bed for lack of a fire to keep warm. He cut holes in the blankets for his hands.
- Rossini composed many of his operas from the pillows. Once, finishing a duet, his score fell to the floor. Too comfortable to get up and retrieve it, the composer simply wrote a second, radically different, version.
- And lest we underestimate the value of a catnap, it is well to recall that Albert Einstein lay down one day and saw $E = mc^2$ flash in fire on the interior of his eyelids.

—from On Going to Bed *(Abbeville Press)*
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